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The



CHEMIST AND DRUGGIST

Established 1859

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MARCH 11, 1933

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A A

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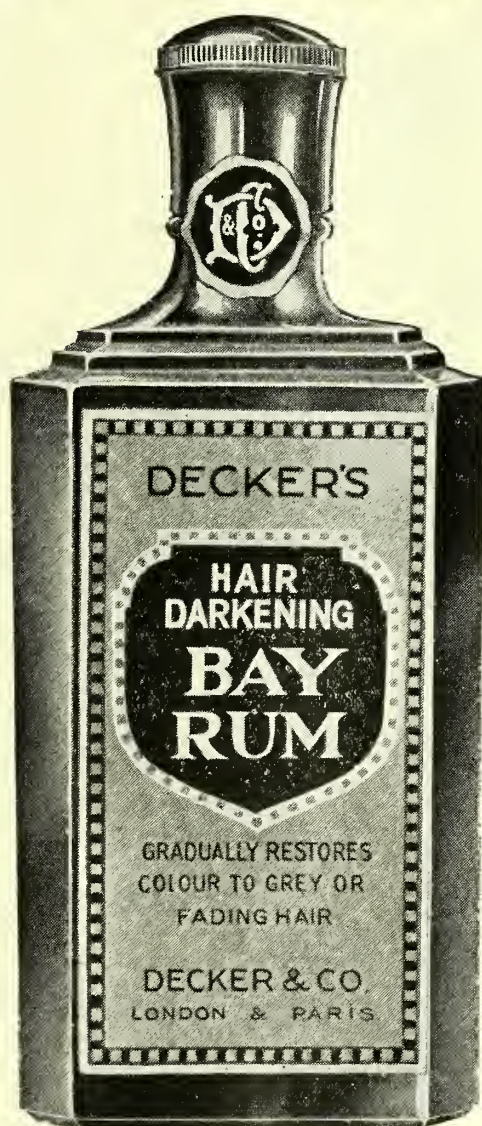
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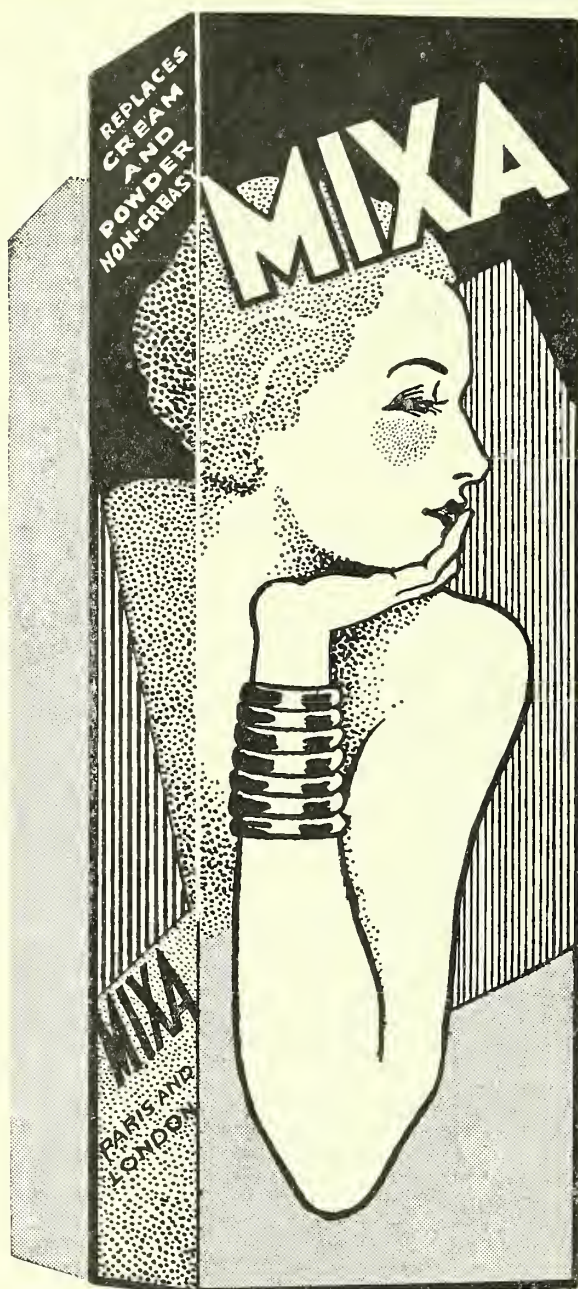
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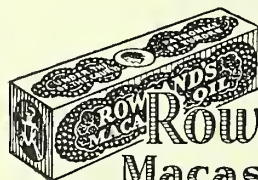
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When you recommend Rowland's Macassar Oil as a hair tonic and dressing you are well on the way to a steady profitable trade, for it is a line which ensures regular purchasers.

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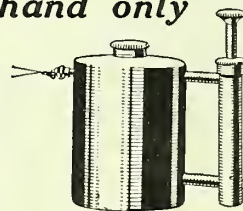
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What YOU are looking for! THE PREMO HANDY SPRAY RELIABLE, EFFICIENT AND LASTING Used with one hand only

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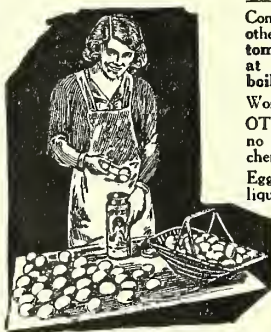
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Housewives Everywhere are asking for

OTEG Egg Preservative

Thousands of Tins were sold last season!
ARE YOU STOCKING IN 1933?



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Wonderfully simple and efficient.

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for 250 eggs, 2/8; 500, 4/9; 1,000, 7/9.

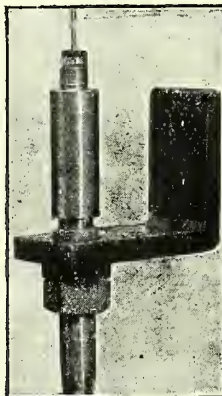
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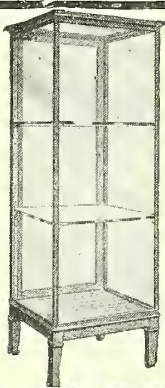
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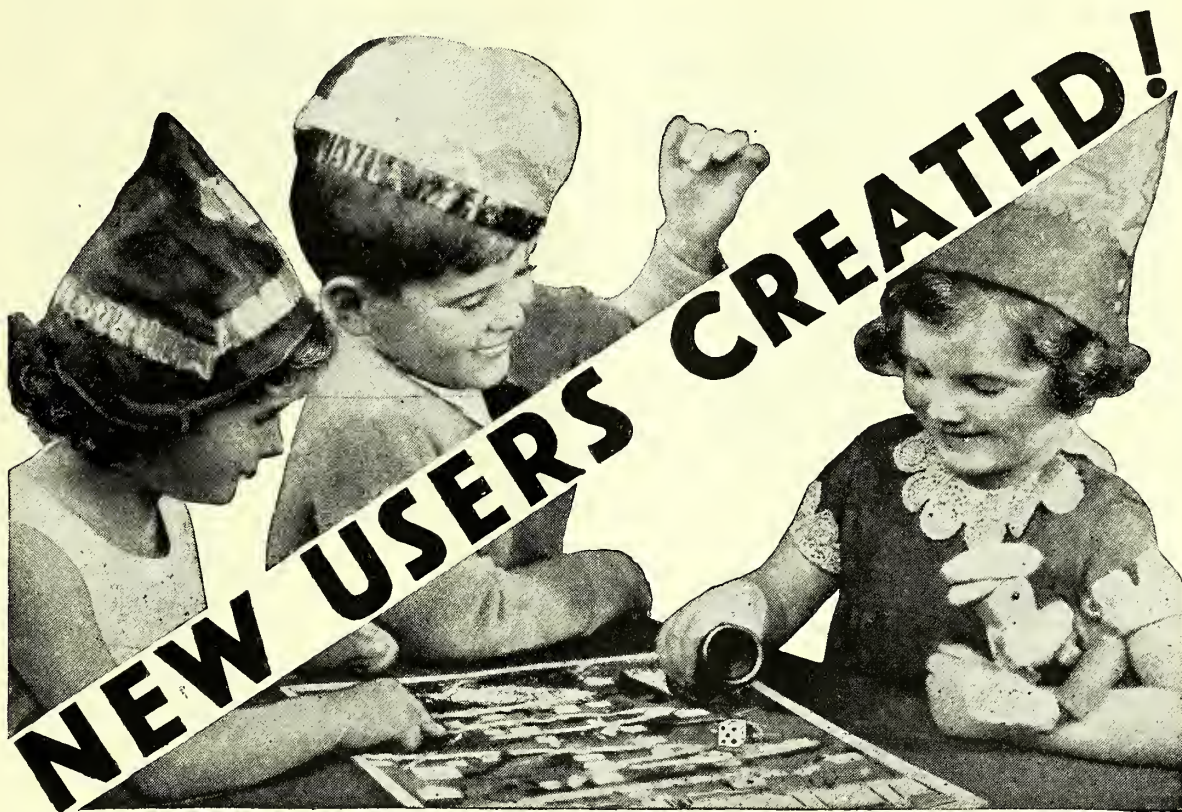
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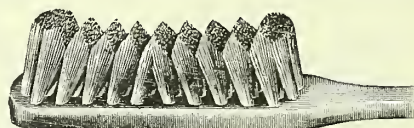
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We, therefore, wish to call the attention of the Trade to the fact that when "VASELINE" Petroleum Jelly is asked for it is an infringement on our Trade Mark rights to supply any other petroleum jelly labelled or unlabelled as a substitute.

APOLOGY

CHESEBROUGH MANUFACTURING COMPANY (CONS.),
Victoria Road, Willesden, N.W.10

Trade **Vaseline** Mark
PETROLEUM JELLY

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I, the undersigned, A. G. White, carrying on business at 16 Broadway, London Fields, E.8, admit having infringed the rights of the Chesebrough Manufacturing Company (Cons.) of New York and London, under their registered trade mark "VASELINE" by passing off as of their manufacture a petroleum jelly called "Blue Diamond" which was not of their manufacture.

I express my deep regret for having done so and for any injury the Company may have sustained by reason of such infringement.

I hereby undertake not to further infringe the said trade mark and in future to stock "VASELINE" Petroleum Jelly and to pay the costs which the Chesebrough Manufacturing Company (Cons.) have been put to in connection with the matter, including the expense of advertising this apology.

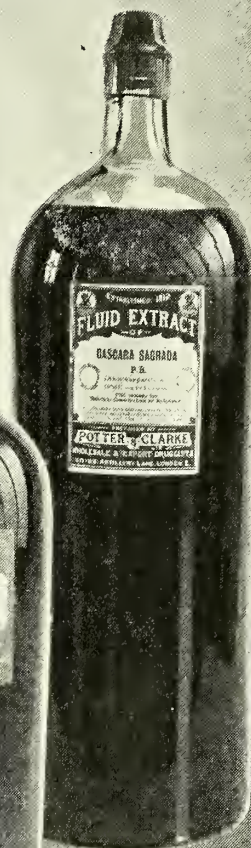
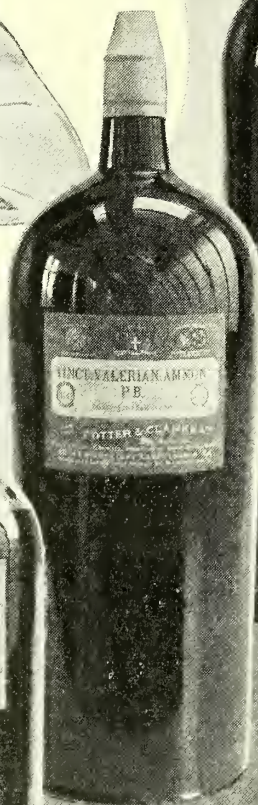
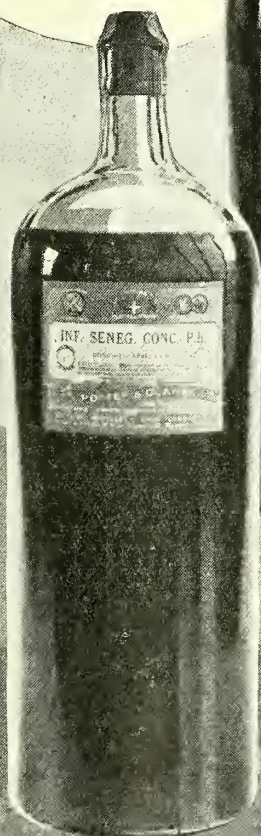
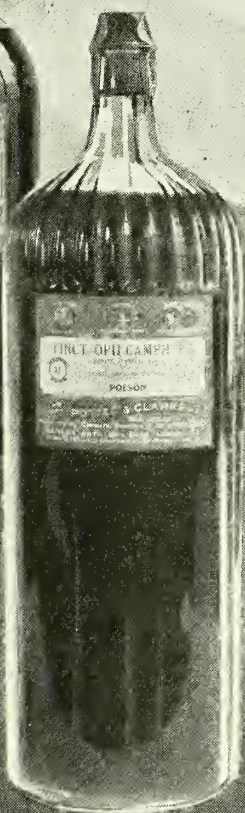
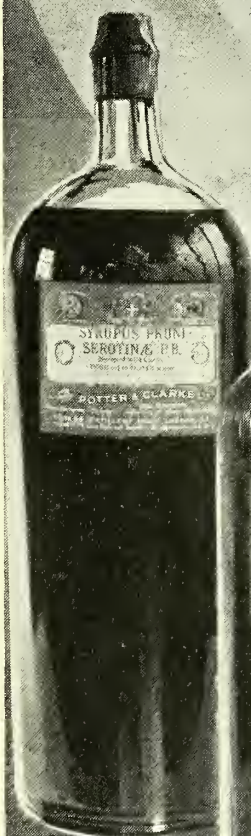
(Signed) A. G. WHITE.

(Witnessed) THOMAS J. WILLIAMS.

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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

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VOL. 118. NO. 2770

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News of the Week

Antimonial Poisoning from Enamelled Ware

A leaflet issued by the Ministry of Health for official use (Stationery Office: 1d.) draws attention to three recent outbreaks of mild poisoning following the use of enamelled vessels in which lemonade was allowed to stand. The first two of these outbreaks were recorded in the *C. & D.*, 1928, II, 89, and 1929, II, 531; the third occurred last December in a London hospital, and affected sixty-five persons. In the first case the acid used was tartaric; in the other two the lemonade was made from fresh lemons. The following paragraph indicates the possibility of further accidents of the same type:—

"It is stated by some authorities that antimony pentoxide is not poisonous, owing no doubt to its comparative insolubility in acids, and that if the pentoxide only is used as a constituent of enamels, there is little danger of any injury to health. Unfortunately the pentoxide is rather easily reduced in the enamelling process to the readily soluble and toxic trioxide, and it appears to be impossible entirely to prevent this reduction. Provided, however, that the enamel matrix enclosing the oxide particles is itself insoluble in acids, there would appear to be little likelihood that dangerous amounts of antimony trioxide will dissolve in foods or drinks. It is the cheap low-grade enamels that are the danger. These enamels are made from a mixture relatively low in silica content and are fired at a comparatively low temperature. They are not acid-proof and appear to be readily dissolved by citric, tartaric, acetic and other acids present in foods. The antimony oxides disseminated throughout the enamel are thus exposed to the action of these acids and any trioxide present goes into solution."

Wine-Licence Applications

At Newcastle-on-Tyne, recently, at the hearing of an application by Mr. A. S. Davison, chemist and druggist, Gosforth, for a wine off-licence it was stated by a police officer that the wines mentioned in the application were not mentioned in the "British Pharmaceutical Gazette." He objected to the application, on the ground that there were already five establishments in Gosforth with similar licences, all within fairly close proximity to applicant's shop. Mr. Hadaway (for the applicant): Have you ever tasted one of these wines? Officer: As a matter of fact I have, many years ago. You did not suffer any ill-effects?—Well, I never got any benefit, and as a matter of fact I did not take any again. The application was refused.

At a meeting of the licensing justices at Finsbury Town Hall, London, E.C., on March 6, among the licences under consideration for renewal were the wine and spirits off-licence, 460 Holloway Road, held on behalf of Bishop's Pure Drug Co., Ltd.; wine off-licence, 804 Holloway Road, and wine off-licence, 251 Upper Street, both held on behalf of Parkes Chemists, Ltd.; wine off-licence, 91 Grosvenor Road (Francis Davies & Co., chemists); and the wine off-licence, 274 Seven Sisters Road (Mr. E. W. Gough, chemist and druggist). It was stated on the agenda that the cause of the adjournment had been to see "whether the licensees are prepared to undertake that the sale of wines (and spirits in the case of the first mentioned) under their licences shall be restricted to medicinal purposes only under a medical certificate, as intended when the licence was granted." Sir Henry Curtis Bennett, K.C., applied for the renewal of the first four licences. After some discussion the Bench decided to drop the question of the

doctor's certificate, and later decided to allow the applicants a fortnight in which to consider whether they would agree to sell only medicated wines in future. The chairman also intimated that the Bench would be prepared to give the applicants a reasonable time in which to dispose of existing stocks.

Visits to Works

A large party of students of the Department of Pharmacy of the Leicester College of Technology, accompanied by the principal of the College (Mr. L. W. Kershaw), Mr. A. Chamings and the staff of the Department, visited the new factory of Boots, Ltd., Beeston, on March 2. All were much impressed by the efficiency and the unique system of chain-driven conveyers. The vast floor of manufacturing plant (in the basement) was of particular interest to the students. The party was entertained to tea before leaving.

A visit was paid to the works of Hirst, Brooke & Hirst, Ltd., Leeds, on February 28, by members of the Scarborough and District Branch of the Pharmaceutical Society. A company numbering over forty assembled from Scarborough, Whitby, Malton and Bridlington. The inspection occupied three hours, and tea was served in traditional Yorkshire style by the lady members of the clerical staff. Mr. T. W. Longdin, the *doyen* of Scarborough chemists, proposed a hearty vote of thanks to the hosts, and Messrs. Geoffrey Hirst and H. G. Read suitably replied. Afterwards the members and guests spent the evening at various places of amusement.

Inquests

At Sheffield, Harold P. Smith, Nottingham Street, Pitsmoor, died after taking a dose of paraldehyde estimated by a hospital doctor at 3iiij. The verdict at the inquest was to the effect that the dose was taken while under the influence of alcohol.

The Paddington (London) coroner recorded a verdict of "Suicide whilst of unsound mind," on March 2, after an inquiry concerning the death of Winifred S. Walden, a waitress. Evidence was given to the effect that death was due to poisoning by aspirin tablets, of which the deceased apparently took 120.

A verdict of "Suicide whilst of unsound mind" was returned at an inquest at Birmingham, on March 3, on the body of Mr. Norman G. Blackwell, director and secretary of Blackwell, Hales & Co., Ltd., manufacturing chemists. Mr. Blackwell's father, in evidence, stated that his son had not slept well for some time. Other evidence showed that on March 1 he appeared to be ill at the works and he was taken to the General Hospital, where he died as a result of morphine poisoning.

Birmingham

Dr. L. H. Lampitt, F.I.C., gave an address on "Food and Science" to the Biochemical Society of the Birmingham University on March 2.

The city analyst (Mr. H. H. Bagnall, B.Sc., F.I.C.), in his report for the fourth quarter of 1932, states that 1,309 samples were submitted of which forty-five proved to be incorrect. All the samples of pharmaceutical interest (camphorated oil, seidlitz powders, citric acid, tartaric acid, borax honey, Glauber's salt, boric ointment and zinc ointment) were found to be genuine.

Liverpool

An enjoyable evening was spent by past and present students of the Liverpool School of Pharmacy on March 3 at their carnival dance in the India Buildings. Dancing continued from 8 p.m. to 1 a.m., and Messrs. Meadows and Benjamin carried out their duties as M.C.s admirably, whilst an excellent programme of dance music was provided.

A further lecture in the series being given before the Old Students' Association of the Liverpool School of Pharmacy (*C. & D.*, February 18, p. 164) was delivered on February 28, when Mr. J. Butler, B.Sc., F.I.C., Ph.C., took as his subject "The Newer Chemical Sub-

stances and Standards of the B.P." The lecturer remarked that certain substances had been revealed as having no therapeutic value, and it was also noticeable that the last few years had seen a number of changes in the section dealing with drugs. It was a significant feature, too, that the new additions were mainly biological products and chemicals. Dealing with the newer chemical substances, Mr. Butler mentioned that in recent years the salts of antimony had been found to have a therapeutic value in certain cases. In regard to anaesthetics, ethylene had an advantage over many others. After describing the test for carbon monoxide, the lecturer mentioned that the pyrogallol and tannic acid test was not suitable for nitrous oxide. The best anaesthetic was that which had the greatest efficiency, coupled with the lowest toxicity, and the best in this respect was procaine. Dealing with antiseptics, the lecturer said that chloramine-T was better than hypochlorite. Another new compound was quinine ethyl carbonate.

Miscellaneous

THEFT.—The premises of Mr. G. H. Lockyer, chemist and druggist, Streatham, London, S.W., were broken into on March 4. Various "dangerous" drugs and toilet articles were stolen.

ANGLO-PALESTINE EXHIBITION.—The Anglo-Palestine Exhibition will be held in the Royal Agricultural Hall, London, N.1, on June 7-17, and will include a "British Commercial and Trade Section." Particulars may be obtained from the Organising Manager, 19 Charing Cross Road, W.C.2.

SPORTING EVENTS.—*Hockey.*—The Ipswich Chemists' Hockey Club (mixed team) met Bungay Waveney, at Bungay, on March 1. After a strenuous game, the chemists proved too strong for their opponents, and the game closed with a score of 9-2 in favour of the former.—*Football.*—At Sheffield, recently, Thursday's Sports 2 v. Chemists 3; Chemists 3 v. G.P.O. 2.

IN THE COURTS.—At St. Helens, recently, Mr. F. Halliwell, chemist and druggist, Heath Street, was fined 5s. on each of two summonses for employing after the closing hour on an early closing day and for failing to fix one of the prescribed notices.—At Castle Hedingham, recently, William Jeacock, grocer, was summoned for having sold baking powder certified as deficient by 4 per cent. in carbon dioxide. An order for payment of 35s. costs was made.

ROYAL VISITS TO WORKS.—On March 1 the works of the St. Helens Cable & Rubber Co., Ltd., Slough, were visited by H.R.H. the Prince of Wales, who made a tour of the factory. The Prince was accompanied by his equerry, Lt.-Col. the Hon. Piers Legh, and the Bishop of Buckingham, and was received by the managing director (Mr. D. Johnstone Sinclair) and the general manager (Mr. H. Evans). The time allotted for the visit was considerably exceeded owing to the interest shown by the Prince in the various processes of manufacture of hot-water bottles and other goods manufactured by the company.—The works of Macleans, Ltd., manufacturing chemists, Brentford, were visited by Prince George on March 7. The Prince was keenly interested in the various processes of manufacture and made inquiries as to the export side of the business. From the printing department to the advertising section was a natural transition, and his Royal Highness commented on the publicity obtained for Maclean Brand Stomach Powder. H.R.H. also showed friendly interest in the welfare and social side of office and factory life.

Irish Notes

Pharmaceutical Society of Ireland

We have received from Mr. James J. Kerr, M.P.S.I., P.C., Registrar of the Pharmaceutical Society of Ireland, the following communication: "My attention has been called to a very misleading article in a trade journal (not the *C. & D.*) on the subject of apprenticeship in Irish pharmacy. It is not true, as stated in the article in

question, that entrance into the craft has been stopped for three years. All that has happened is that the matriculation examination of the National University has been substituted for the Preliminary examination of this Society. I trust that this will make the matter clear to the members of the Society."

Brevities

The annual meeting of the Ulster Retail Drug Trade Association will be held in Belfast on March 15.

At Stewartstown, recently, Patrick McGrath, Killen, was summoned for having sold spirit of nitre which contained only 0.64 per cent. of ethyl nitrite by weight. A fine of 2s. 6d., with 15s. 6d. costs, was imposed.

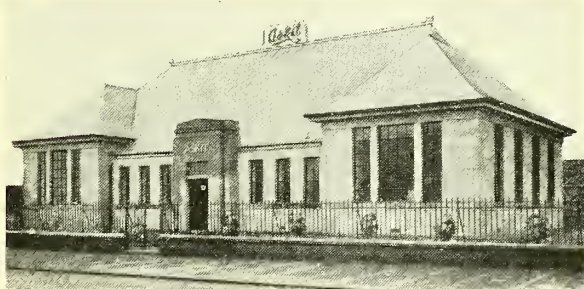
At the annual meeting of the Northern Ireland Branch of the National Federation of Sub-Postmasters, Messrs. J. Henderson, Ph.C., Great Victoria Street, Belfast, and J. F. Grimes, Ph.C., Pomeroy, were elected on the Committee for the ensuing year.

At an inquest in Markethill, co. Armagh, on the body of William George Waugh, who poisoned himself by taking strychnine, Mr. William G. Taylor, Ph.C., Markethill, said that on February 3 deceased bought 20 gr. of strychnine to kill rats. A verdict of "Suicide during temporary insanity" was returned.

Scottish Notes

A Progressive Scottish Business

Started as a post-war business in 1919, the Askit Manufacturing Co. was formed to market Askit, which had been on sale in the shops of the late Mr. Adam Laidlaw during the previous five years. Judicious advertising and careful management, together with the efficacy of the preparation, caused the business to grow, and in 1925 the present company—Askit, Ltd.—was formed and took over the manufacture, sale and distribution of Askit products. Progress since that time has been steady and very marked. In one day recently orders were sent to Canada, the United States, Australia, South Africa, India, and Egypt. So great has been the growth of the business that the directors were obliged to build a new factory, and this was opened recently by the Lord Provost of Glasgow. A representative of THE CHEMIST AND DRUGGIST has had an opportunity of visiting the new factory, which is shown



in our illustration. The premises, situated at Saracen Street, Glasgow, consist of board room, offices, laboratory, manufacturing department, store, etc., hygienically built, centrally heated and compact; the welfare of the workers has been carefully considered. The keynote is cleanliness; the laboratory is white-tiled and white-enamelled, and includes a special mixing machine built to order by Wm. Gardner & Sons (Gloucester), Ltd. A special floor which keeps down dust has been laid in the factory. Four machines have been installed. The normal output of each is 30,000 powders a day, or over 7,500,000 powders per annum. Ample provision has been made for extending the plant and, if necessary, doubling this output. Plenty of space is

available for packing and dispatching, and the whole layout of the factory is admirably suited to the requirements of the business. Askit is also obtainable in tablet form.

Brevities

At Edinburgh Sheriff Court, recently, H. Robertson, herbalist, was fined £2, with £2 expenses, for having sold two tins of asthma powder containing poisonous alkaloids.

The honorary degree of LL.D. of Aberdeen University is to be conferred upon Mrs. K. E. Traill, widow of Professor Traill (a former examiner of the Pharmaceutical Society).

Mr. Charles Young, chemist and druggist, has been elected president of the Scottish Terrier Club of Scotland. Mr. Young has been breeding and exhibiting Scottish terriers for over thirty years, and has shown several champions.

A correspondent writes:—"The striking coloured C. & D. advertisement in the issue of March 4 emphasises the popularity of the C. & D. as an advertising medium. It is obvious that in the regular publication for so many years a vast amount of organised thought and labour is entailed."

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

Monday, March 13

South-West London Chemists' Association and Branch of the Pharmaceutical Society, Stanley's Restaurant, Lavender Hill, London, S.W., at 8.45 p.m. Joint meeting with the South-West London Branch of the Photographic Dealers' Association. Mr. J. T. Hope-Evans will give a brief talk, and Mr. H. Flower, A.R.P.S. (Ilford, Ltd.), will give a lantern lecture on "Infra-Red Photography and the Use of Hypersensitive Plates."

Tuesday, March 14

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Mr. H. B. Lacey, F.L.S., on "Some Problems in Plant Pathology."

Wednesday, March 15

Birkenhead and Wirral Pharmacists' Association, Woodside Hotel, at 8.30 p.m. Meeting and supper. Tickets 2s. 6d. each. Mr. H. Humphreys Jones, Ph.C., F.I.C., on "Retgression and Progress."

Birmingham Pharmaceutical Association, Kuuzle's Café, Union Street, at 7.30 p.m. Whist drive and dance.

Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. H. Davis, B.Sc., Ph.C., on "Sterilisation in Hospital Pharmacy"; Mr. J. R. Elliott, Ph.C., on "Notes on the Accuracy of Dispensing Solutions."

Manchester Pharmaceutical Association, Junior Branch, Victoria Hotel, at 8.30 p.m. Lantern lecture.

Thursday, March 16

London Chemists' Golfing Society, Trocadero Restaurant, Piccadilly Circus, London, W.1. Annual dinner and dance. Reception 6.30 p.m. Tickets 12s. 6d. each from the secretary, Mr. W. E. Cane, 10 Gloucester Road, London, S.W.7.

Pharmaceutical Society of Great Britain, Bath and District Branch, Forrt's, Milson Street, at 8 p.m. Pharmacy ball (date transferred from March 23). Tickets, 5s. each, from Mr. T. J. Cornish, 8 George Street, Bath.

Pharmaceutical Society of Great Britain, Newcastle, District and Northumberland Branch, County Hotel, at 8 p.m. Dr. Edgar (Rutherford College) on "Matter: Does it Matter?"

Friday, March 17

National Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Sir Wilfrid Sugden, M.P., on "Parliamentary Experiences."

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8 p.m. Evening meeting. J. P. Todd, Ph.D., Ph.C., and Janet Y. Baird, B.Sc., Ph.C., on "The Sterilisation of Sodium Bicarbonate"; George R. Milne, Ph.C., and Gordon Rattray, Ph.C., on "Fungal Growths in Liquor Arsenicalis, B.P., 1932"; George Macmorran, Ph.C., on "The Solubility of Calcium Lactate"; E. J. Schorn, Ph.C., A.I.C., on "The Percentage Solutions of the B.P., 1932."

British Pharmacopœia

WE have received the following letter, dated March 3, from the registrar of the General Medical Council:—

I am directed to ask you to be good enough to publish the following additional corrigenda in the British Pharmacopœia, 1932:—

Page 185 Lines 30 & 31 *delete* "as directed under Pilula Ferri Carbonatis."
 Page 274 Line 6 *delete* *Test for Purity.* This solution satisfies the test for sterility.
 Page 375 Line 46 *for* thirty read fifty.
 Page 507 Line 26 *for* ruthenium oxybromide read ammoniated ruthenium hydroxychloride, $\text{RuCl}_4(\text{OH})_2$, 7NH_3 , $2\text{H}_2\text{O}$.

As these corrections are so few, it is not proposed to issue a further printed slip, but the alterations, as well as those communicated in my letter of December 21 last, will be made in the next issue of the Pharmacopœia which is now in the press.

Business Changes

MR. W. J. GRACEY, Ph.C., has taken over the branch business of W. Clements, Ltd., chemists, at 106 York Street, Belfast. [Corrected note.]

MR. C. W. COLLISHAW, chemist and druggist, has acquired the business of Mr. R. J. Perkin, chemist and druggist, Hingham, Norfolk.

MR. H. RAYMOND THELWELL, chemist and druggist, has acquired the pharmacy and optical business at 41 The Promenade, Bridlington, lately carried on by Mr. J. B. Purvis, Ph.C.

MR. WILLIAM L. GREEN, chemist and druggist, has acquired the business formerly carried on by Mr. R. H. Greenwood, chemist and druggist, 18 St. Mary's Row, Moseley, Birmingham.

THE business of C. A. Charpentier, essential oil importer, 25 Bartlett's Buildings, Holborn Circus, London, E.C.4, is to be continued under the same name, with Mme S. Charpentier and Messrs. A. S. Baker and F. C. Baker in partnership.

Topical Reflections

By Xrayser

A Pharmacy and Poisons Bill

is once more before Parliament, and we may have to look forward to a possible attempt to ensure its passing into law during the present session. It will be interesting to learn how the new measure compares with its predecessor, whether it differs in material respects, and if we may expect it to go forward as having been agreed with the Council of the Pharmaceutical Society. And then we shall be curious to know whether or not opposition to the Bill will be offered by other interests concerned, and what may be the prospect of any such opposition proving of serious account. Most important in my opinion will be the attitude towards the measure adopted by those carrying on the business of a chemist and druggist in Great Britain. By this time every one of us ought to have come to a definite conclusion as to the wisdom of allowing to become law a Bill which will perforce attach to the Pharmaceutical Society every chemist keeping open shop for the sale of poisons, and compel the payment of an annual registration fee for each shop so kept open, in addition to the annual dues payable by the chemist himself. It ought to be clearly recognised that, if the Bill now brought forward is similar to the previous one, chemists owning shops and the shops owned by such chemists will virtually require to be licensed after payment of fees to the Pharmaceutical Society. If no objections are to be raised on this point, chemists and druggists may find it to their advantage generally to help the Bill to pass. But they ought to make up their minds definitely with regard to the measure, and that without marked delay after publication of the text of the Bill.

The "Bread-and-Butter" Side

of our business ought certainly to be the pharmaceutical part of our activities, since that is what constitutes the distinction between our occupation and any other. There should be no disagreement with Mr. Harry Brindle (*C. & D.*, March 4, p. 227) on that score, but the trouble is that so many who carry on the business of a chemist and druggist were trained in days when, or in places where, the so-called professional side counted for little in building up turnover. Nevertheless I am disposed to assent to the principle that we should now regard the preparation and supply of medicines as the mainstay of our business; but I would include as legitimate pharmaceutical bread-and-butter

producing trade the supply of everything required in medical treatment, over and above medicines to be compounded and dispensed. Sales of chemical substances, too, must not be overlooked as part of legitimate pharmaceutical practice, irrespective of the purposes for which the substances may be required. It may be, of course, that Mr. Brindle would regard all sales over the counter as "trade" transactions; but there are many sales which are quite properly classed as pharmaceutical business, and I see no reason whatever for regarding them as being alien to our professional practice. I have been greatly interested in the report of Mr. Brindle's thoughtful address, and would commend its perusal as being well worth while.

No Search for New Remedies

would appear to be necessary, in the opinion of those of us who are repeatedly being called upon to order some new synthetic or proprietary preparation that has been prescribed, possibly for only the one occasion; but the necessity for such a search does present itself at times, as Professor Gunn has pointed out recently (p. 228). It is well that we pharmacists should have it explained to us what experimentation may be involved in endeavours to treat satisfactorily the conditions found to exist in unusual clinical cases, the more especially as this helps to bring home to us the need for fitting ourselves to comprehend what is being done in the realm of experimental pharmacology, and to take part as co-workers with medical practitioners in the application of research results. It may be that we shall find it count for much in fixing the status of pharmacy as a professional occupation if we make it our business to possess expert knowledge of new remedies generally, including the ways in which they act as well as the methods of presenting them for use. But there should be no hesitation on this score, unless we are of those who feel disinclined to develop further what Mr. Brindle would describe as the true "bread-and-butter" side of our occupation.

A NEW QUARTERLY MAGAZINE.—The first number of "The Medico-Legal and Criminological Review," a quarterly publication which will embody the "Transactions of the Medico-Legal Society," has been published at 3s. by Baillière, Tindall & Cox, 7 & 8 Henrietta Street, London, W.C.2.

Westminster Wisdom

Notes on Parliamentary Matters

PHARMACY AND POISONS BILL

The following is the text of the official report (unrevised) of the second reading debate on the Pharmacy and Poisons Bill in the House of Lords on March 7:—

Order of the Day for the Second Reading read.

The EARL OF LUCAN: My Lords, the Bill to which I am asking your Lordships to give a Second Reading to-day will be familiar to your Lordships as it is almost identical with the Bill which was passed in your Lordships' House in 1931 and sent to the Commons. It did not get beyond First Reading there owing to the Dissolution in the autumn of that year. That Bill was intended to give effect to the recommendations of a Departmental Committee set up by the then Lord President of the Council, the late Lord Balfour, in 1926 to examine into the law as regards poisons. The Bill met with a considerable amount of opposition both in Committee and on the Report stage, but I believe that when it left this House it commanded your Lordships' approval.

I have looked at the OFFICIAL REPORT of the Committee and the Report stages of that Bill in your Lordships' House in 1931 and I notice that, among other noble Lords, my noble friend Viscount Bertie put down a considerable number of Amendments. They occupied several pages of the Amendment Paper. I find, however, that he nearly always ended by thanking the noble Lord in charge of the Bill, and so I think it is only fair to assume that my noble friend the Leader of the Opposition, who was then in charge of the Bill, treated his Amendments kindly and sympathetically. I believe he was moving Amendments on behalf of the Pharmaceutical Society, which was then opposed to the Bill. That society now, I understand, is in favour of the Bill and, indeed, presses for it to be passed into law. My noble friend Lord Dawson of Penn also took exception to the Bill as it was introduced in 1931 on the ground that the medical authorities had not been sufficiently consulted. However, the noble Lord in charge of the Bill assembled conferences between the representatives of the Government Department and representatives of the medical societies, with the result that all their objections, I understand, were overcome and a representative of the British Medical Association was added to the Poisons Board.

The present Bill is practically an agreed measure. It is urgently required in order to bring the law relating to pharmacy and the sale of poisons up to date. The existing law relating to poisons consists of three Acts of Parliament passed in 1852, 1868 and 1908. All those Statutes were subjected to thorough investigation by the Departmental Committee, and His Majesty's Government, as did the last Government, accept the Report of that Committee and consider that its proposals should be given statutory force as soon as possible. The enforcement of the law and the control of the sale of poisons was originally, and still is, in the hands of the Pharmaceutical Society, but it was felt that a non-official association with insufficient resources was not the right body to regulate matters affecting large sections of the public and matters immediately bound up with the health and safety of the public. It was felt that the decision as to what substances should be treated as poisons, and also methods of control, should be in the hands of a Minister responsible to Parliament, acting on the best scientific and medical advice available. The duty of determining what are poisons and of administering the law is therefore transferred by this Bill to the Home Secretary, who will be assisted by a Poisons Board, the constitution of which your Lordships will see set out in the Second Schedule to the Bill. The Board will comprise representatives of medicine and pharmacy, technical experts and representatives of the Government Departments concerned.

While this Bill is similar to the measure of 1931 it alters the procedure as regards the sale of poisons by establishing a new Poisons List. That list is divided into two parts. Part I consists of those substances the retail sale of which the Poisons Board consider should be confined to registered pharmacists, and Part II of those substances for which more extended distribution may be thought desirable, and the retail sale of those substances will be permitted to persons or firms registered with the local authority. This division of the Poisons List is intended to meet the views of the agricultural and horticultural communities. It is contemplated that the poisons in Part II of the list will be sold only in sealed containers bearing appropriate words and that they shall consist of substances required for general use for sanitary, industrial, domestic, agricultural or horticultural purposes or as vermin killers.

Part I of the Bill deals with pharmacy, and is intended to strengthen the position of the Pharmaceutical Society and its representative character. It makes every registered pharmacist a member of the society and it also provides for a Statutory Committee, to be appointed by the Council of the Pharmaceutical Society, who will consider the case of any pharmacist alleged to be guilty of a criminal offence or of conduct which renders him unfit to be on the register. As this Committee will exercise a judicial function it is required that the chairman, who will be appointed by the Privy Council, shall be of legal experience. I have only given your Lordships a very brief account of the provisions of this Bill as in its present form it is substantially, and in the matter of principle is exactly, the same measure as the Bill which your Lordships passed in 1931.

I will not weary you with any more details, but I will only say that the alterations made in this Bill as compared with the measure of 1931 are, firstly, that the membership of the Statutory Committee has been increased from five to six; and secondly, that the conditions required to be fulfilled before an authorised seller of poisons can be removed from the register have been more closely defined and now include a body corporate as well as an individual pharmacist. Guidance is given as to the considerations to be taken into account in determining the distribution of poisons as between Parts I and II of the Poisons List, and a further alteration is that the sale of poisons in automatic machines is prohibited. I may add that all the alterations have been made either at the request of or in consultation with the Pharmaceutical Society, who approve them. The Bill, as I have said, is practically an agreed measure and I hope that your Lordships will pass it so that it may be assured of becoming law during the present Session. I beg to move.

Moved. That the Bill be now read 2^a.—(*The Earl of Lucan.*)

LORD ASKWITH: My Lords, it is satisfactory to learn from the noble Earl that this is practically an agreed Bill. It is a Bill of very great importance and of a far-reaching character and it may be only the forerunner of other Bills which will come before your Lordships' House. In 1931, in conjunction with my noble friends the Lord Chairman of Committees, Lord Phillimore and Lord Cozens Hardy, I took considerable trouble over the Bill which passed through your Lordships' House that year but was not proceeded with in another place. Now it would appear that agreement has been reached between the Pharmaceutical Society and the Home Office and also, apparently, with those industries which raised objections in 1931. In 1931 there was considerable objection from the owners of private patent medicines and some of the heavy chemical industries and also as to the method by which poisons should be dealt with. Now this Bill establishes on a solid basis the Pharmaceutical Society and this Poisons Board. It goes without saying that this is a matter of great importance. Scarcely a day passes when you cannot pick up a newspaper and see some case of real or alleged poisoning. If some control can be exercised so as to reduce the number of poison cases, and the danger that may exist to so many members of the public, everyone ought to be grateful to those who have been able to come to an agreement and bring this Bill before your Lordships' House.

LORD PONSONBY OF SHULBREDE: My Lords, I only wish to say in a few words that I hope you will give this Bill a Second Reading. I well remember the passage of the Bill through your Lordships' House in 1931. While there was then a good deal of discussion and criticism, I must say that on the whole I was very much assisted by the various suggestions of noble Lords in getting the Bill into a really businesslike shape. Knowing how urgent is the need for this Bill I hope very much that its passage through your Lordships' House now will also lead to its passage in another place. I notice that the noble Earl in moving the Second Reading told us something of additions and slight alterations that have been made, but I gather from what he said that, as compared with the Bill of 1931, they were improvements which would further add to the utility of the Bill. I hope there is nothing inherent in a Poisons Bill which leads to a Parliamentary Dissolution, but should that occur again I do not know that I should object.

THE EARL OF HALSBURY: My Lords, in regards to the Bill of 1931 I was closely associated with the Pharmaceutical Society and it was on what I learned from them that I spoke on many occasions during the passage of that Bill. I think I was also present at all the discussions mentioned by the noble Lord, Lord Askwith. While accepting at once the noble Earl's view that the Pharmaceutical Society, so far as he knows, are in entire agreement with the Bill in its present form, I rise to say, though of course entirely approving the Second Reading, that if the Pharmaceutical Society should bring to my notice something that ought to be altered—I hope that will not be the case—I hold myself open to bring forward an Amendment in Committee.

VISCOUNT BERTIE OF THAME: My Lords, I received a letter from the Pharmaceutical Society stating that they had many amendments put into the Bill and were now in full accord with it. My noble friend seemed to be apprehensive that I might be troublesome in Committee, but I shall not detain him for more than a few moments and that will only be to correct a grammatical inconsistency.

On Question, Bill read 2^a, and committed to a Committee of the Whole House.

In the House of Lords

By a Commoner

As a commoner in the Upper Chamber I was permitted on March 7 to stand under the gallery. From there I could see the red benches, apparently most uncomfortable, for the noble lords fidgeted like children in church. There was a murmuring of voices as incessant and monotonous as the murmuring of the sea on a November day. A call was heard: "Orders of the Day." Did silence reign, were the voices hushed? No, the monotonous noise continued. All the time the Orders of the Day were being read, the Leader of the House from the Government Benches kept popping up and down, the Lord Chancellor going to and fro from the Woolsack to a seat at the side; apparently everyone mumbled something, but no one able to hear anything. During this time members kept arriving, yet at no time was there a crowd in the House, even to consider so momentous a measure as the Pharmacy and Poisons Bill. The noble lords appeared, some dressed in the height of fashion of 1933, others in the height of fashion of 1883; some wearing soft collars, others linen winged collars, and other collars of a pattern that surely can only be purchased from one shop.

The first item on the order paper was "The Pharmacy and Poisons Bill—Second Reading." This was moved by the Earl of Lucan, who said that it was almost identical with the measure that passed through their lordships' house in 1931 but did not go further than the stage of first reading in the House of Commons, owing to the dissolution. He said that it was a Bill to put the Pharmaceutical (pronounced farmer-cuticle) Society on a sound basis (at this moment I noticed the faces of Mr.

Instead and Mr. Skinner drop considerably). He also said that the previous Bill was opposed by the Society, but as a result of the alterations and amendments that body was now in favour of it. There had been conferences between the Government and the medical societies, and the objections of the latter had been overcome, therefore the Bill was practically an agreed measure. Lord Halsbury pointed out that on the occasion of the previous Bill he had brought forward many amendments on behalf of the Pharmaceutical Society, and he, while supporting the Bill, would hold himself in readiness to bring forward any amendment in the Committee stage that the Society might desire. One or two other noble lords spoke, the second reading was agreed to, and before I realised that it was all over they were busy discussing the Road Traffic Bill.

Festivities

Staff Function

THE annual dance of the works employees of Scott & Turner, Ltd., Newcastle-on-Tyne, was held recently. Among those present was Mr. J. E. Diamond (works manager). The M.C.s were Messrs. E. Birch, V. H. Blaney and N. Walters.

Manchester Public Pharmacists' Carnival

A SUCCESSFUL dance, organised by the Manchester Branch of the Guild of Public Pharmacists, was held at the Piccadilly Dance Salon on February 28. Over 140 members and friends attended. Novelty dances were successfully introduced. The M.C.s were Messrs. Philpson and Wanless.

Nottingham Function

MEMBERS of the Nottingham and District Branch of the Pharmaceutical Society held the final bridge and whist drive of the season on March 2. The bridge prizes were won by Mrs. Clay, Mrs. Griffiths, and Mrs. Alder; those for whist were won by Miss Reynolds, Mr. Burr and Mr. I. A. Hewis. A special prize presented by the president (Mr. F. W. Shepherd) was won by Mr. T. Freeman, but three ladies having tied for second place, Mr. Freeman generously allowed them to cut for it; Mrs. Dawson was then the winner.

Manchester Masonic Ladies' Evening

THE second ladies' evening of the Manchester and District Pharmaceutical Masonic Association was held recently. The guests were received by the chairman (Bro. J. Bridgford) and Mrs. Bridgford. The toast of "The Chairman" was given by Bro. W. J. McCutcheon, and "The Ladies" by Bro. S. M. Bostock; replies were by Bro. J. Bridgford and Mrs. Bridgford, sen., respectively. In a whist drive, conducted by Bro. A. H. Lyons, the following were the prizewinners:—*Ladies*, (1) Mrs. Rigby; (2) Mrs. D. McCutcheon; (highest single score) Mrs. Belshaw; (hidden number) Mrs. F. D. Gee; (traveling) Mrs. R. L. Balf; (booby) Miss Roberts. *Gentlemen*, (1) Bro. Reid, (2) Bro. A. Wild; (booby) Bro. S. M. Bostock. An interval for refreshments followed, and dancing then continued until midnight.

Across the Square

THE venue of the annual dance of the Metropolitan pharmaceutical branches is, appropriately enough, at the Hotel Russell—within sight of the Society's headquarters. This year it was held on March 2, and as usual it was well attended and was very jolly. It gives an opportunity for the officers of the various Branches and their wives "and other appendages" (as one speaker at the supper put it) to meet and talk and join in the giddy dance. They came from North, East, North-East, South-East, South-West and West London, and all seemed to enjoy themselves. The President of the Society was there, accompanied by Mrs. Hines and Miss Hines, the vice-president (with Mrs. Keall), the ex-president (with Mrs. Melhuish and Miss Melhuish), while other high lights in

official pharmacy included Mrs. Freke (who is standing again for election to the Council), Mr. and Mrs. W. J. Beardsley, Mr. Herbert Skinner, Mr. and Mrs. F. G. Wells and the secretary (Mr. H. N. Linstead). At the supper short speeches were made by the president, who welcomed the gathering, and Mr. A. R. Melhuish (chairman of the B.P.C. Local Committee), who made an eloquent appeal for all to get together and make the Conference in London this year a social and financial success. "For Auld Lang Syne" closed the proceedings.

Bedfordshire Dinner

THE tenth annual dinner and dance of the Bedfordshire Branch of the Pharmaceutical Society was held at the Bridge Hotel, Bedford, on March 1. The chairman (Mr. G. L. Whitmore) was supported by the president of the Society (Mr. F. Gladstone Hines), Mr. W. J. Beardsley (a member of the Society's Council) and Mrs. Beardsley, Mr. H. H. Marshall (a member of the Executive of the N.P.U.), Mr. R. J. Atkinson (principal of the Bedford Technical Institute) and Mrs. Atkinson, Mr. Frank Heath (president of the Bedford Chamber of Trade) and Mrs. Heath, Dr. Armstrong, Mr. H. W. Kilby (vice-president of the Branch), Mr. G. N. Shelton (secretary), Mr. R. C. Frank (treasurer) and Mr. C. D. Smith (assistant secretary). Welcoming the guests, the chairman said that not only was learning in the widest sense increasing, but, more important still, business relationships were gradually becoming personal friendships, thus bringing out the finest that was in commerce. He referred to the loss the Branch had sustained in the death of Alderman J. H. Webb, of Luton. Proposing the toast of "The Pharmaceutical Society," Mr. R. J. Atkinson traced the history of pharmacy, and commented on the forethought of the founders in establishing a laboratory. The president of the Society, responding, applauded the growing spirit of fraternisation. He stressed the necessity for even their own members to get acquainted with the biological outlook, and said they might congratulate themselves that the Council had the forethought to establish the laboratories. He reminded them that the last effective pharmacy legislation was in 1908, and they had arrived at the stage when pharmacy must have a new constitution throughout. The health of "The National Pharmaceutical Union" was drunk on the call of Mr. H. W. S. Wynter. Mr. H. H. Marshall, responding, detailed the facilities the N.P.U. offered, and said sufficient funds had been accumulated. He urged the formation of a Bedford Branch. "The Ladies and Visitors" were complimented by Mr. A. W. Morgan and Dr. Armstrong, and Mr. F. Heath responded.

North Staffordshire Dinner

THE annual dinner of the North Staffordshire Branch of the Pharmaceutical Society was held at the Grand Hotel, Hanley, on February 23; there was an attendance of over 200. The president (Mr. W. E. Cropper) was in the chair, and the company included Mrs. Cropper, the Lord Mayor and Lady Mayoress of Stoke-on-Trent, the Deputy Lord Mayor, Mr. H. N. Linstead (secretary of the Pharmaceutical Society), Mr. S. R. Farmer (vice-president of the Branch) and Mrs. Farmer, Mr. W. Stanier (vice-president and joint secretary), Mr. W. F. Redfern (joint secretary) and Mrs. Redfern, and Mr. L. W. Piggan (treasurer). The toast of "The Pharmaceutical Society" was proposed by Mr. Cropper, who said the Society was responsible for the examination, and, to some extent, for the education of the pharmacist, and it was within the last few years that the Society's school had become a school of London University. The laboratories in Bloomsbury Square were the last word in offering opportunities for biology and pharmacology. Mr. Linstead, responding, expressed the thanks of the Society to the North Staffordshire Branch for the work they had done in organising their recent dance, as a result of which £80 was being sent to the Benevolent Fund. The Society was going ahead in many directions in order to build a sound basis for pharmacy for the future. The Society would continue to do all possible for the scientific development of pharmaceutical research work, because they believed that it was the real basis of

pharmacy. Proposing "The Medical Profession," Mr. J. A. Dale said medicine had progressed tremendously since the war, and especially since the introduction of the biological chemist, who had come to its assistance. Great progress had been made in public services and other directions, and it had been much more rapid and continuous since the association between the two professions had been closer. Dr. Spark, replying, said the medical profession appreciated the good work the North Staffordshire Branch of the Society was doing. Dr. H. A. Mitchell, who also responded, said that with the new Pharmacopœia there came, to a greater extent than ever before, the necessity for close co-operation between the medical profession and pharmacists. "The Guests" was submitted by Mr. E. M. Mellor, who remarked on the large part the provincial universities had played in bringing about the close co-operation between education and commerce. The Deputy Lord Mayor responded. Mr. Fergusson referred to the harmonious relations between the wholesale drug trade and the chemist. The dinner was followed by a dance.

Glasgow Pharmacy Club Dinner

THE annual dinner of the Glasgow Pharmacy Club took place at the Grand Hotel, Glasgow, on February 28. Mr. James McGillivray (president) and Mrs. McGillivray received the guests, to the number of about 140. Entertainment of a high order was provided by Miss Jean Loudon and Miss Roy, Mr. James Leighton and Anderson's Marionettes. Mr. John Rennie, in proposing the toast of "The Glasgow Pharmacy Club," said this was an organisation which fostered social intercourse and fellowship, and this resulted in friendship, without which life was not worth living. He said that an example was set in the large number of trophies which were on view for different forms of sport, and was one that could well be copied by the many pharmaceutical organisations. The trophies were presented by Mrs. McGillivray as follows:—

Event	Winners	Presented by
GOLF—		
Mackay Cup ...	E. Allison ...	John Mackay & Co., Ltd.
Smith Cup ...	J. Low ...	T. & H. Smith, Ltd.
Hatrick Cup ...	H. MacMaster ...	W. & R. Hatrick & Co.
Virol Cup ...	K. MacKenzie ...	Virol, Ltd.
Ucal Cup ...	W. Seivwright ...	United Chemists' Association, Ltd.
Waide Cup ...	Miss Cunning ...	T. Waide & Sons, Ltd.
GOLF (LADIES)—		
Hunter Trophy ...	Miss J. G. Brown	Mr. R. Hunter
Guest Trophy ...	Miss I. W. McConnell	Thomas Guest & Co., Ltd.
ANGLING—		
McEwan Quaich	W. J. Moffat ...	Mr. Arthur McEwan
Beaumont Trophy	S. G. Askham ...	Mr. W. L. Beaumont
Masheer Trophy	W. J. Moffat ...	Mr. A. Gardiner (Calcutta)
BOWLING—		
Greig Trophy ...	D. J. Edgar ...	Mr. Wm. Greig
Cartwright Trophy	J. G. McMaster ...	W. B. Cartwright, Ltd.
	J. S. Anderson.	
	F. B. Gray.	
	W. S. Culbert (skip)	
Cockburn Cup ...	J. G. McMaster ...	Mr. C. T. Cockburn
WHIST (LADIES)—		
Finlayson Rose Bowl	Mrs. A. Duncan	Argyle Rubber Co., Ltd.
BADMINTON—		
Taylor Cup ...	Miss C. Aird ...	Jas. Taylor (Tron-gate), Ltd.
	K. MacKenzie.	

Mr. Arthur Mortimer (secretary of The Wholesale Drug Trade Association) proposed in humorous vein the toast of "The Ladies." Women pharmacists, said Mr. Mortimer, make good wives, but it was not given to everybody to realise that women pharmacists could also make good husbands. A gracious reply was given by Miss Mary Bain, in which she emphasised the fact that women have come into pharmacy for the good of pharmacy, and that they meant to stay there. A collection for the Society's Benevolent Fund realised £6 2s. 3d. "Auld Lang Syne" brought to a close what was considered the best function for many years.

Joseph Priestley

The Bicentenary of his Birth

By William Kirkby, M.Sc., Ph.C.

WE are told that Dr. Johnson was much interested in chemistry and on one occasion a Salisbury physician entertained him with some experiments on new kinds of air. During the demonstration he somewhat impatiently exclaimed, "Why do we hear so much of Dr. Priestley?" The reply was "Sir, because we are indebted to him for these important discoveries." Johnson's observation was "Well, well, I believe we are; and let every man have the honour he has merited." The reasons lying behind the grudging acquiescence of Johnson in Priestley's discoveries being worthy of merit are not far to seek. Like thousands of others, the spirit of loyalty to Church and Throne which dominated him compelled him to an attitude of strong antagonism towards the heretic that Priestley seemed to be. To-day, after many years, we can look dispassionately upon the violent ebullitions of feeling caused by the impinging of the French upheaval upon the more extreme Dissenters of the late eighteenth century, and we can turn our thoughts to the contemplation of Priestley's character and the discoveries which have entitled him to the name of "The Father of Pneumatic Chemistry."

The record of the life of Joseph Priestley is singularly free from obscurity in any of its parts; there are no missing years, no dark periods, no episodes for misinterpretation. From the cradle to the grave it is open to inspection by all men of normal vision. Yet it is full of interest, and, in my opinion, is worthy of the pen of a biographer of imagination.

Notable Tributes

On two occasions, it must be remembered, peers of Priestley have left for us expressions of their feeling and of their estimation of his work and character. In 1806 Georges Cuvier, perpetual secretary to the National Institute of France, read the "Eloge Historique" on Priestley in terms which should not be neglected by those who desire to arrive at a proper estimate of the "Father." The other eulogium to be recalled is that uttered by Professor T. H. Huxley, at the unveiling of the statue to Priestley's memory in Birmingham in 1874. He was born at Fieldhead, about six miles from Leeds, on March 13 (O.S.),¹ 1733. His father was a cloth dresser, and he and his wife were deeply religious people, being pronounced Calvinists. Joseph was the first child,

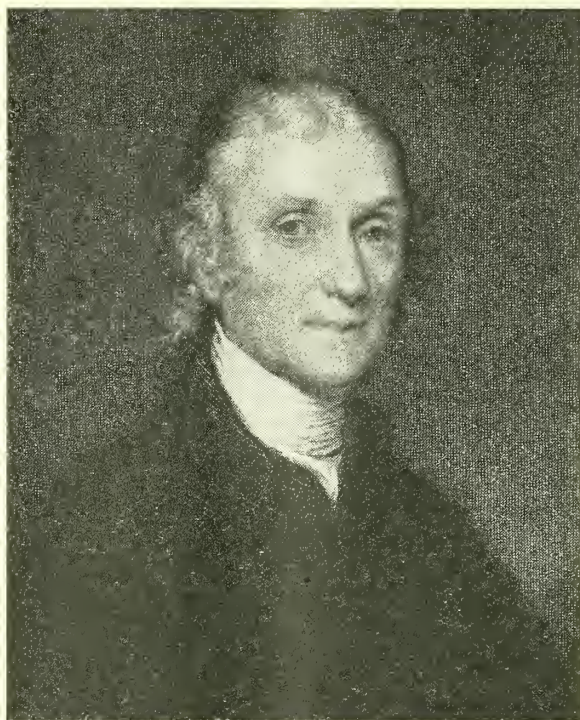
and suffered the loss of his mother when he was seven years old. His father's sister, a Mrs. Keighley, to relieve her brother, who had been left with five other children to rear, undertook the education of Joseph. Mrs. Keighley was a woman of means; her husband died when Joseph was twelve years old and left her with a considerable amount of property. It was her desire, as well as his own, that her nephew should go into the ministry.

This intention was fostered by the frequenting of her house by ministers with whom she and her husband had made friends. Priestley was given an excellent education at schools in the neighbourhood and by tutors. At twelve years of age he knew Latin and Greek; he acquired Hebrew from a Mr. Kirkby later, and he taught himself French, Italian and German when for a short time it was thought he might go into a counting house. He also learned Chaldee, Syriac and Arabic. Priestley's doubts as to his attitude towards Calvinism almost prevented him from going forward with the idea of becoming a preacher. But in 1752 he went to the ministerial training academy at Daventry. In the course of his professional religious career he went to Needham Market in Suffolk, and from there he passed on to Nantwich, where he received an invitation to become a tutor in the celebrated Warrington Academy, at that time a focus for the

learned lights of Nonconformity in the North of England. He entered on his duties in September 1761; the duties consisted in teaching Latin, Greek, Hebrew, French, Italian; and he gave lectures on logic, the theory of language, oratory, criticism, history, general policy, civil law, anatomy and elocution, notwithstanding that he had a slight stammer which prevented his being an acceptable preacher. Priestley spent six happy years at Warrington. The *personnel* of the Academy and their families were a highly congenial group of persons, practically all of whom have written their names on the roll of the intellectual life of England.

Turning his Attention to Science

During his sojourn at Warrington he made the acquaintance—which ripened into friendship—of Benjamin Franklin, and so became even more strongly inclined to a study of natural philosophy. Franklin encouraged him in his experiments in electricity; one immediate result of his original work was his election as a Fellow of the Royal Society (1766), and a further outcome was his "History of Electricity," wherein, Sir Philip Hartog says ("Nature," May 2, 1931), some of



JOSEPH PRIESTLEY, F.R.S.
(British Museum)

¹ The bicentenary falls on March 24

Priestley's best work may be found. Priestley was now embarked upon the work for which he seems to have been especially fitted by desire and temperament. It was in the Warrington period that he had the degree of LL.D. conferred upon him by the University of Edinburgh. He was then about thirty years of age, and felt that he might venture upon the married state. Up to that time Priestley does not appear to have given any marked attention to chemistry; but at Warrington one of the lecturers was a Dr. Turner, of Liverpool, whose subject was chemistry, and it seems probable that it was he who was a cause of Priestley's interest in the subject. At no time was there any indication that he contemplated in the smallest degree any intention or desire to lessen his interest and work as a minister of religion. When, therefore, in 1767 he was invited to take charge of a congregation in Leeds he accepted the call. There he carried out experimental work with which his name is associated by all classes of the community: he aerated water with carbonic acid gas more satisfactorily than had been done by anyone previously, and accomplished it so as to produce a carbonated beverage—with presumptive antiseptic properties—approved by the College of Physicians for use by seamen on shipboard. For this discovery the Royal Society awarded him the Copley Medal. Priestley stayed seven years in Leeds, and during that time he became so expert in the obtaining, collecting and measuring of gases as to be rightly regarded as the founder of pneumatic chemistry. In Leeds, and during a subsequent term of six years spent as nominal librarian to Lord Shelburne, he made those important discoveries which are so clearly and frankly described in his "Experiments and Observations on Different Kinds of Air." To name the gases which this brilliant experimenter discovered and studied is, perhaps, to understand how it is he must be esteemed the principal representative of English science on the threshold of the nineteenth century. They are nitric oxide, nitrous oxide, ammonia, hydrochloric acid gas, sulphur dioxide, silicon fluoride; he isolated his phlogisticated air (nitrogen); he was the first to indicate the character of carbon monoxide; and lastly, and chiefest of all, he discovered oxygen.

The Phlogistic Theory

This is not the place to discuss his strange attitude to the phlogistic theory beyond observing that he was before everything an experimentalist, who most remarkably did not allow preconceived notions to prevent him trying new materials and new methods even if they did not look promising. It was "chance" that led him to go into the brewery next door to see what could be done with fixed air. It was chance that put into his hands that large burning glass of twelve inches diameter which tempted him to try its effects upon his *mercurus calcinatus per se* and so set loose the dephlogisticated air to fill him with astonishment. He says this

"furnishes a striking illustration of the truth of a remark which I have more than once made in my philosophical writings, and which can hardly be too often repeated, as it tends greatly to encourage philosophical investigations; viz., that more is owing to what we call *chance*, that is, philosophically speaking, to the observation of *events arising from unknown causes*, than to any proper *design* or preconceived theory in this business."

All Priestley's writings on chemistry are pervaded with the spirit of that observation; they breathe an attractive frankness which caused Franklin to address him as the "honest heretic." It was no effort for him to "open his mind" to whomsoever he was talking; and in one place he boldly claims that he never concealed his knowledge from anyone. His desire to be sincere with himself is found well expressed in a sentence that is worth placing on the walls of every laboratory: "We may," he says, "take maxim so strongly for granted that the plainest evidence of sense will not entirely change, and often hardly modify, our persuasions."

In 1780 Priestley went to Birmingham as a minister at a Unitarian meeting house. His influence was extensive, both as a member of the famous Lunar Society and as a leader in the propagation of advanced views in religion and politics. In that city there was a strong section of the people who resented the possibility of his teaching furthering aims akin to those of the French

revolutionaries. In 1791 some of his friends celebrated the anniversary of the taking of the Bastille. The spirit of the mob was inflamed by this insult to Church and King, and for three days Birmingham was a scene of riot and plunder. Priestley's house, books and apparatus were destroyed by fire. He and his family escaped, and he found refuge in London, where, alas! he was looked at askance, even by Fellows of the Royal Society, whose attitude he felt called for his resignation of the Fellowship. Four years later he left England to join his sons in the United States near Philadelphia. The University of Philadelphia offered him the professorship of chemistry, which he felt obliged to decline. For the remainder of his days he continued his philosophical researches and theological writings. His labours in this latter field were immense, and are gathered into twenty-five volumes. Priestley's writings on electricity, vision and chemistry are familiar to all students. He died at Northumberland, Pennsylvania, in 1804, and left a record of his life in the "memoirs," continued and published by his son.

Early in life Joseph Priestley was elected to an honour bestowed upon few Englishmen, namely, a foreign associateship of the Institute of France. In England the cities of Leeds, Oxford and Birmingham¹ commemorate him in statues. Perhaps Birmingham finds a better memorial in the "Old" library Priestley did so much to make into a useful institution. In the United States also his memory is kept green by an institution—the American Chemical Society—founded as a result of the Priestley celebration held at the Priestley home at Northumberland in 1874. Priestley's work, character, the vicissitudes of his life, recorded as they are by himself and by his contemporaries, exhibit him as one of the heroes of science of the eighteenth century.

¹It is remarkable that when the Birmingham statue was modelled no one objected to the representation of an experiment requiring a lens of twelve inches diameter. A lens of about three inches is an absurdity.

Manchester Pharmaceutical Association

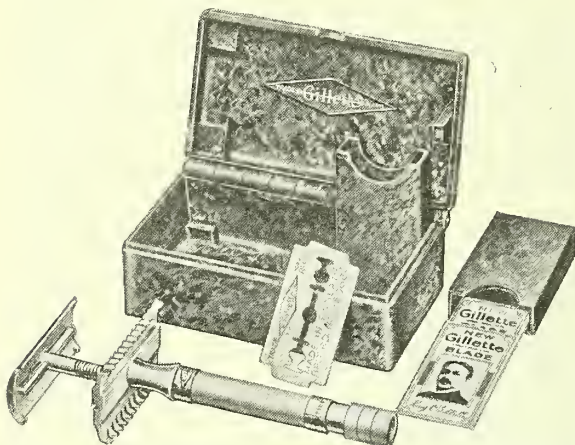
A WELL-ATTENDED MEETING of the Manchester Pharmaceutical Association was held on March 2, Mr. E. H. Simmons (president) in the chair. There was a good attendance to hear a discussion on *Relations Between Wholesalers and Retailers*. Mr. D. Dickson (past-president of the Association) dealt with the subject from the retailer's point of view. He considered the relationship between wholesalers and retailers was very satisfactory. He had always found the wholesaler willing and anxious to do the right thing by him. He advocated a "clearing house" for surplus stock. Mr. Annis (Hough, Hoseason & Co., Ltd.), who deputised for Mr. R. Hough (absent on account of a chill), said he had never found any difficulty too great to be overcome, and any disagreement was soon smoothed out when the retailer and the wholesaler got together. The wholesaler was always ready and willing to be of assistance, and it behaved the retailer to utilise that service. Mr. H. Steinman (chairman of the Junior Section) said there was a need for a "tightening up" by the wholesalers of the method by which supplies were being handed out. Mr. Cronin (representing the commercial travellers) said he agreed with the previous speakers that there was not much the matter between retailer and wholesaler. He recommended that any chemist who has old and unsaleable stock should write to the makers. This would save unfair competition from "junk stores," which were an undoubted menace and source of anxiety to the wholesaler and retailer. In the discussion which followed Messrs. Simmons, Wrigley, Thorpe, Newton, Walters and Stabler took part. Colonel Watson (James Woolley, Sons & Co., Ltd.) proposed a vote of thanks to the speakers, to which Mr. Steinman replied.

"FIRST STEPS IN DIETETICS."—A reprint of articles by Dr. J. Neil Leitch, first published in "The Nursing Mirror," has been issued at 1s., under the title "First Steps in Dietetics," by the London School of Dietetics, 20-22 Chenies Street, W.C.1.

Trade Notes

CAL-BIS-NATE.—William R. Warner & Co., Ltd., 300 Gray's Inn Road, London, W.C.1, announce a reduction in the price of Cal-bis-nate (to the public on April 15) and the introduction of a new size.

A NEW RAZOR SET.—Gillette Industries, Ltd., 197 City Road, London, E.C.1, are bringing out a new (No. 77) safety razor outfit, an illustration of which appears



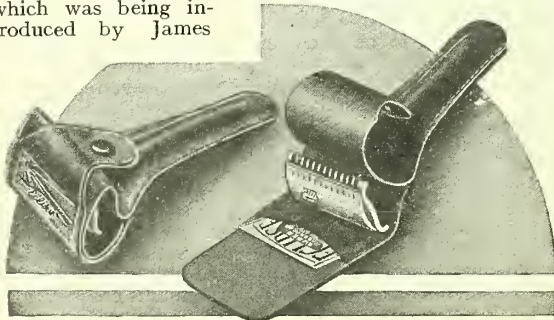
above. The improved razor is enclosed in a moulded case with a walnut finish, together with three blades and two blade holders. This latest introduction of Messrs. Gillette is shortly to be nationally advertised.

JAMES TOWNSEND & SONS, Exeter, and 54 Farringdon Street, London, who specialise in the printing of labels, showcards and other matter for chemists, can supply an inexpensive record book for use in claiming spirit rebate.

SOLPORT BROTHERS, LTD., 184 Goswell Road, London, E.C.1, inform us that the Portia baby balance and the Portia baby-weighing outfit are now British made and that the prices have been reduced to their former levels.

"**INFLUENZA AND QUININE**" is the title of an informative pamphlet which is being distributed by R. W. Greeff & Co., Ltd., Thames House, Queen Street Place, London, E.C.4. Copies of this publication will be sent free of charge to C. & D. subscribers on application.

ECLIPSE SAFETY RAZOR.—Reference was made in the C. & D., February 25, p. 209, to the new safety razor which was being introduced by James



Neill & Co. (Sheffield), Ltd., Napier Street, Sheffield. Among the interesting improvements which have been incorporated in the Eclipse are: Tapered cones which automatically centre the blade and result in both edges shaving alike; micrometer adjustment to regulate the projection of the shaving edges, to suit either light or stiff beards; a magnet in the handle to pick up razor blades; unique design of cap and guard—accurately machined to give the correct shaving angle. The razor is supplied in two outfits, the less expensive (razor, blade and wallet) being shown in the above illustration.

REDFERN'S RUBBER WORKS, LTD., Hyde, Cheshire, have sent us a copy of their catalogue of rubber flooring and tiling. This booklet is illustrated in colours to show what an enormous range of designs and shades are available. In appearance and durability floor covering of this nature is well suited for pharmacies, and chemists will find it worth while to obtain a copy of this publication.

THE CORONET CAMERA Co., 310 Summer Lane, Birmingham, 19, have recently issued their 1933 catalogue of still and ciné cameras. This is a remarkably fine production in photogravure and a copy will be sent to any chemist interested in photography. The distributors of the firm's apparatus through the drug trade are Thomas Christy & Co., Old Swan Lane, London, E.C.4.

FRANCIS NEWBURY & SONS, LTD., 27 Charterhouse Square, London, E.C.1, have drawn our attention to the style of packing adopted for their Blue Dragoon corn crayon. The liquid is enclosed in a vial with a sprinkler



neck of the modern type and has a moulded screw cap. The advantages of this enclosure are that the preparation is easy to apply, there is no mess, and the liquid does not dry up, as is so often the case with a corked bottle.

WHITAKER & Co. (KENDAL), LTD., dye manufacturers, Kendal, are now sending out their 1933 catalogue. This publication is attractively produced, and gives full particulars about new lines and sales helps, as well as offers of special discount terms. Any chemist who does not receive his copy in the course of a few days should write to the above address.

Prescription Problem

OUR next problem is given below. Exact transcriptions of the prescription are invited on postcards only (one attempt), which should reach the Editor, THE CHEMIST

Prescription Problem

3/14 *8/11*

AND DRUGGIST, 28 Essex Street, London, W.C.2, not later than the first post on Monday, March 20. Prizes will be awarded at the discretion of the Editor.

Marriages

BROCKLEHURST—TAYLOR.—At St. Giles' Cathedral, Edinburgh, on February 18, Eric Arthur Brocklehurst, chemist and druggist, to Henrietta Smith Taylor, chemist and druggist.

WILLEY—COATS.—At St. George's Church, Ramsgate, on February 25, Stanley George Willey, chemist and druggist, to Evelyn Coats.

Deaths

ARDERN.—At Albion Villa, Queen Street, Ashton-under-Lyne, on February 23, Mr. John William Ardern, chemist and druggist, aged sixty-eight. Mr. Ardern had been in business in George Street for more than forty years. He held office as president of the Ashton Chemists' Association and of the local branch of the Pharmaceutical Society, and was a Past Master of the Unanimity Lodge of Freemasons.

BLACKWELL.—At the General Hospital, Birmingham, recently, Mr. Norman George Blackwell, B.Sc., director and secretary of Blackwell, Hayes & Co., Ltd., manufacturing chemists, Moor Street, aged forty-eight.

CHANTRY.—At Osterley, on February 25, Mr. John Henry Chantry, chemist and druggist, formerly of Totland Bay, Isle of Wight, aged sixty-six. Mr. Chantry established his pharmacy about forty years ago, and retired before the recent war.

DRUMMOND.—At his residence, "Dunalister," Falkirk, on March 3, Mr. Robert Gordon Drummond, chemist and druggist, High Street, aged seventy-one. Mr. Drummond had been associated with his pharmacy (established in 1785, and believed to be the oldest chemist's business in Scotland) for over half a century. Some years ago he was joined by his two sons, Mr. R. Gordon Drummond, jun., and Mr. Alexander W. Drummond, as partners. They also carry on business at 72 High Street, at Graham's Road, and at Laurieston. For some years he was president of the Stirlingshire Pharmaceutical Association and a member of the North British Executive of the Pharmaceutical Society. In addition to his sons, Mr. Drummond is survived by a widow and two daughters.

GLASS.—At 2 Bruntsfield Gardens, Edinburgh, on February 24, Mr. William Stephen Glass, Ph.C. Mr. Glass passed the Qualifying examination in 1877, and became a pharmaceutical chemist in 1895. He carried on business in Morningside Road for a long period, during part of which he served on the Executive of the North British Branch of the Pharmaceutical Society.

RICHARDS.—At her residence, 115 Southville Gardens, Bradford-on-Avon, on March 5, Mrs. Ellen Richards, wife of Mr. B. Richards, retired chemist and druggist, late of London.

ROBINSON.—At 171 Woodland Road, Darlington, on March 6, Mr. James Robinson, Ph.C., formerly in business at 5 Northgate, aged eighty-six.

VENO.—At The Woodlands, Altrincham, on March 6, Sir William Henry Veno, aged sixty-six. Sir William Veno was born at Castle Douglas, Scotland, and had a varied career in the United States and elsewhere before establishing the well-known medicine bearing his name. Eventually the manufacture of this and two other successful proprietaries was carried on in the extensive premises in Chester Road, Manchester, described in *THE CHEMIST AND DRUGGIST*, 1922, I, 861. In 1925 a new company was formed for the purchase of this and other interests, with a capital of £625,000. Sir William Veno, whose title was conferred in 1920, was prominent in financial circles in London and Manchester. In 1922 he made a gift of £10,000 to the Middlesex Hospital for cancer research. He is survived by Lady Veno, three sons and two daughters.

Wills

MR. ROBERT WHITELAW, 40 Brighton Place, Aberdeen, surgical instrument maker, who died on May 15 last, left personal estate in Great Britain valued at £5,591.

MR. CHARLES MARFLEET BASS, Upper Brook Street, Rugeley, Staffs, chemist and druggist, who died on August 29 last, aged 86, left estate gross value £11,327, with net personalty £11,141.

MR. JOHN HENRY WEBB, 97 London Road, Luton, Beds., formerly of 21 Cardiff Road, Luton, chemist and druggist, who died on June 9 last, left estate gross value £7,163, with net personalty £110 18s. 5d.

MR. MATTHEW WHITELOCK BELL, Enville, 29 King's Road, Richmond, Surrey, chemist and druggist, who died on November 20, aged eighty-five, left estate gross value £23,630, with net personalty £20,952.

MR. JONATHAN INNES FRASER, Ph.C., 26 Craigmillar Park, Edinburgh, and of 9 Dundas Street, Edinburgh, who died on December 15 last, aged seventy-six, left personal estate in Great Britain valued at £8,260.

MR. THOMAS PILKINGTON, 22 Polefield Road, Blackley, Manchester, chemical manufacturer, of T. Pilkington & Co., Ltd., Yew Tree Chemical Works, Collyhurst, who died on June 6 last, aged fifty-six, left estate gross value £5,324, with net personalty £4,279.

MR. ADAM WILLIAM BAIRD, 3 Abercromby Place, Castle Douglas, N.B., at one time head of Thomas Adam & Co., Ltd., export oil merchants, of Glasgow, who died on October 11 last, aged seventy-seven, left personal estate in Great Britain valued at £7,644.

MR. HUGH GILMOUR ROSE, J.P., Appletrees, Stevenage, Herts, a director and formerly managing director of Messrs. L. Rose & Co., Ltd., lime-juice manufacturers, Worship Street, London, E.C., died on January 16 last, aged sixty-seven, leaving £32,634, with net personalty £28,179.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Report on the February Analytical Exercise

PRIZES

The First Prize for the best analysis has been awarded to:—

G. H. BAINBRIDGE, Temple Sowerby, Penrith.

The Second Prize has been awarded to:—

WM. JOHN GILBERT, c/o Mrs. Ewing, 2, Spottiswoode Street, Edinburgh.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

G. H. Bainbridge (1st Prize)	91	Bon-Accord	76
W. J. Gilbert (2nd Prize)	90	Persistence	75
Phaf	89	Brimstone	71
J. Teasdale	89	Phœnix	71
Pseudacorus	88	H. Smith	70
Tetmal	86	Cyanide	63
Y. N. Hart	85	Wyong	55
		Westcott	53
		Quisque errat	52

(To be continued)

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THE CHEMIST AND DRUGGIST

VOL. CXVIII. MARCH 11, 1933

NO. 2770

The Pharmacy and Poisons Bill Returns

THE last day of February was the day chosen by a Government department to stage the return of the Pharmacy and Poisons Bill in the House of Lords. The second reading followed on March 7. Old enthusiasms against the Bill will need to be more astutely managed than on the last occasion if the so-called success then claimed is to be repeated. There really was no mystery about the loss of the Bill in 1931: the economic blizzard blew it out of practical politics to await less critical weather. The question we need to ask is whether the unfair proposals put forward in 1931 have been modified or removed. We were informed that the Pharmaceutical Society's Council had withdrawn opposition and would let the Bill go forward as an agreed measure, reserving hostility for any destructive elements likely to be gathered in its passage through the House of Commons. Clause 17 (3), which secured this agreement, bears repeating:—

In determining the distribution of poisons as between Part I and Part II of the said list, regard shall be had to the desirability of restricting the said Part II to articles which are in common use, or likely to come into common use, for purposes other than the treatment of human ailments, and which it is reasonably necessary to include in the said Part II if the public are to have adequate facilities for obtaining them.

It took a large expenditure of energy, with incidental expenses, to get that concession; but that will not help one iota unless strong and understanding men are included on the Poisons Board to represent pharmacy. The clause can spring a thousand leaks in administration; however, as no clause can in all circumstances be watertight, something must be taken on chance, so perhaps the policy of being satisfied with the best we can get rather than spoil everything for what we cannot get will once more prevail.

The Principal Changes

The clauses of the Bill have been rearranged; and so, in order to get a correct understanding, it will be necessary to read through the Bill. Various verbal alterations have been made, but important changes are few. Legal decisions in pharmacy have lately been adverse, and an effort had to be made to clear up what often seemed doubtful law. A new clause eliminates the competition of automatic machines as sellers of poison. The most adverse decision, however, was the one which reduced the *bona-fide* conduct of the business to a farce. Clause 8 (a) of the Bill states:—

In each set of premises where the business is carried on the business must, so far as concerns the retail sale of drugs, be under the personal control of the pharmacist himself or of some other registered pharmacist.

We shall still be asking "What is personal control?" Clause 9 (3) should certainly be deleted. It states that a private company, if every director of it is a pharmaceutical chemist, may use the description of pharmaceutical chemist or of pharmacist—in other words, a personal title can be used by a company under certain conditions, which is altogether unreasonable. Strong opposition to this proposed innovation should come from the Council of the Pharmaceutical Society. Clause 11 (2) sets out more clearly than before the grounds on which the Statutory Committee shall take penal action. The real battle (if there is to be one) over the Bill will begin in the House of Commons. It remains to be seen whether pharmacists completely accept the compromise reached by their Council: by their attitude when the subject is debated in the Commons will the result, for good or bad, be determined. The text of the Bill is given on pp. 262-69 inclusive.

Medical and Dental Registers

THE Medical Register for the year 1933 has just been issued (Constable & Co., Ltd., 10 Orange Street, London, W.C.2. 21s.) by the General Medical Council. The number of names included is 56,096, an increase of 492 on the number at the end of 1931 and of 857 on the average of the last five years. Registrations during the past year number 1,545; this figure is 23 more than that for the previous year and 20 more than the average for the past five years, but 135 less than the average for the past twenty years. The names of 1,112 medical men have disappeared from the Register during 1932, a figure above the average for the past twenty years (1,011). The customary legal, statistical and other information is included in the volume. The Dentists Register for 1933, published for the Dental Board of the United Kingdom by Messrs. Constable (12s.), contains 14,528 names (in the previous year there were 14,472). During the past year 242 persons have been registered with qualifications and six under the Dentists Act, 1921; in addition, two Colonial names have been added. The number of names removed is 476; of these, 168 were deleted in consequence of death and 301 under Section 7 of the Dentists Act, 1921. The percentage of United Kingdom graduates and licentiates in dental surgery on the Register is now 49.87; of persons (other than medical men or dental surgeons) in dental practice prior to the Act of 1878, 2.58; and of persons registered (without additional qualifications) under the Dentists Act, 1921, 45.8. We note that ten years ago, when the effect of the 1921 Act on registration was disclosed for the first time, 7,269 persons had been registered without qualification during the preceding twelve months, and the proportion of United Kingdom graduates and licentiates fell to 39.06 per cent.; it is probable that it now exceeds 50 per cent. The Local List at the end of the volume gives under place headings the names of the dentists practising in each area; and an inset supplies names of companies carrying on the business of dentistry and of directors of such companies. The Medical and Dental Students' Register for the current year (Constable & Co., Ltd. 7s. 6d.) gives 1,947 names of medical students registered in 1932 (1,643 in 1931), and 322 names of dental students (296 in 1931). The number of new medical students is the highest since 1920, and that of dental students since 1922.

Pharmacy and Poisons Bill

The following is the text of the Pharmacy and Poisons Bill read a second time in the House of Lords on March 7. The text of the Pharmacy and Poisons Bill of 1930 was printed in THE CHEMIST AND DRUGGIST, 1930, II, pp. 810-815.

A BILL INTITULED

An Act to amend the law relating to Pharmacy and Poisons and for purposes consequential on such amendment.

BE it enacted by the King's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:—

PART I

PHARMACY

1.—(1) Every person registered as a pharmacist shall, by virtue of being so registered, be a member of the Pharmaceutical Society of Great Britain (in this Act referred to as "the Society"), and the provisions of the Pharmacy Acts and of the Charter of Incorporation of the Society, in so far as they provide that persons shall become members of the Society by election, shall cease to have effect.

(2) Every member of the Society shall, in addition to the fees payable on registration as a pharmacist, pay such fee (in this section referred to as "a retention fee") as may be prescribed by by-laws, but not exceeding two pounds, in respect of the retention of his name on the register in any year subsequent to the year in which he first becomes a member of the Society, or, in the case of a person who was a member of the Society immediately before this section comes into operation, subsequent to the year in which this section comes into operation.

(3) Different retention fees may be prescribed under this section as regards different classes of members of the Society, and provision may be made by by-laws for exempting any class of the said members from liability to pay a retention fee.

(4) If a person on whom a demand has been made, in the manner prescribed by by-laws, for payment of a retention fee payable by him under this section fails to pay the fee within two months after the date on which the demand therefor was made, the Council of the Society (in this Act referred to as "the Council") may remove his name from the register, but if, either within the year in respect of which the fee is payable or within such longer period as the Council may allow, the person whose name has been removed from the register pays to the Society the retention fee, together with such additional sum, if any, by way of penalty for the default as may be prescribed by by-laws, his name shall be restored to the register, and, if the Council so directs, the restoration shall have effect as from the date on which his name was removed from the register.

(5) A person shall, on ceasing to be registered as a pharmacist, cease to be a member of the Society.

(6) Except in so far as the Council otherwise directs, the register of members of the Society and associates and apprentices or students directed to be kept by section five of the Pharmacy Act, 1852, shall cease to be kept, and so much of the Pharmacy Acts as relates to the keeping of the said register and to the granting by the registrar of certificates of inclusion therein, or of membership of the Society, shall cease to have effect.

(7) In this section the expression "year" means a period of twelve months beginning on such date as the Council may from time to time determine.

(8) Nothing in this section shall apply to honorary or corresponding members of the Society.

2.—(1) It shall be the duty of the Council on the demand of a registered pharmacist to cause a certificate of registration to be issued to him without fee:

Provided that, where a certificate of registration has already been issued to the person making the demand, there shall be no obligation upon the Council to cause a further certificate to be issued to him unless he satisfies the registrar that the original certificate has been lost or destroyed and pays such fee, if any, in respect of the issue of the further certificate as may be prescribed by by-laws.

(2) If a person to whom a certificate of registration has been issued ceases to be registered as a pharmacist, he shall, within fourteen days after so ceasing, transmit the certificate to the registrar for cancellation, and, if he fails so to do, he shall be liable on summary conviction, in respect of each offence, to a fine not exceeding five pounds and to a further fine not exceeding one pound for every day subsequent to the day on which he is convicted of the offence during which the default continues.

(3) If, with intent to deceive, a person—

(a) forges, or uses, or lends to or allows to be used by any other person a certificate of registration or any other certificate issued under any of the Pharmacy Acts; or

(b) makes or has in his possession a document so closely resembling any such certificate as aforesaid as to be calculated to deceive;

he shall be liable on summary conviction, in respect of each offence, to a fine not exceeding twenty pounds and, in the case of a continuing offence, to a further fine not exceeding five pounds for every day subsequent to the day on which he is convicted of the offence during which the contravention continues.

(4) In the application of this section to England, the expression "forges" has the same meaning as in the Forgery Act, 1913.

3.—(1) It shall not be lawful for a person, unless he is registered as a pharmaceutical chemist, to take or use the title of pharmaceutical chemist or pharmacist, or for any person unless he is registered as a pharmacist to take or use the title of chemist and druggist, or of druggist or of pharmacist or of member of the Pharmaceutical Society, or to take or use in connection with the sale of goods by retail the title of chemist.

(2) It shall not be lawful for a person to use in connection with any business any title, emblem or description reasonably calculated to suggest that he or anyone employed in the business possesses any qualification with respect to the selling, dispensing or compounding of drugs or poisons other than the qualification which he in fact possesses.

For the purposes of this subsection the use of the description "pharmacy" in connection with a business carried on on any premises shall be deemed to be reasonably calculated to suggest that the owner of the business and the person having the control of the business on those premises are registered pharmacists.

(3) If a person acts in contravention of the foregoing provisions of this section, he shall, on summary conviction, be liable in respect of each offence to a fine not exceeding twenty pounds and in the case of a continuing offence to a further fine not exceeding five pounds for every day subsequent to the day on which he is convicted of the offence during which the contravention continues.

4.—(1) The Privy Council may nominate three persons to be members of the Council of the Society in addition to the persons appointed as members of the Council under the Charter of Incorporation of the Society, and the persons so nominated shall hold office as members of the Council for such period as the Privy Council may determine.

(2) A person may be nominated under this section as a member of the Council whether he is or is not a member of the Society.

5. Section two of the Pharmacy Act, 1852, shall cease

to have effect so far as it requires by-laws to be confirmed and approved by a special general meeting of the Society.

6.—(1) For the purposes of this Act there shall be appointed a Committee of the Society which shall be known as "the Statutory Committee" and which shall be constituted in the manner provided by this section.

(2) The Statutory Committee shall consist of six members, of whom one, who shall be a person having practical legal experience, shall be appointed by the Privy Council, and of whom five shall be persons appointed by the Council of the Society.

(3) The member appointed by the Privy Council shall be the chairman of the Statutory Committee, and a person may be appointed a member of the Committee whether he is or is not a member of the Society or of the Council of the Society.

(4) Subject to the provisions of this section, a member of the Statutory Committee shall hold office for a period of five years from the date of his appointment but shall be eligible for reappointment at the expiration of that period.

(5) A member of the Statutory Committee may at any time resign his appointment, in the case of the member appointed by the Privy Council, by giving notice in writing of his resignation to the Clerk of the Privy Council, and in the case of any other member by giving such notice to the registrar.

(6) It shall be lawful for the body by which any member of the Committee was appointed to remove him from his office for inability to perform his duties or for misbehaviour.

(7) If the member appointed by the Privy Council becomes, by reason of illness or other infirmity temporarily incapable of performing the duties of his office, the Privy Council may appoint a deputy (who shall be a person having practical legal experience, but who need not be a member of the Society or of the Council), to perform his duties for any period not exceeding six months at one time, and the person so appointed shall, during that period, have the same powers as the person originally appointed.

(8) There shall be paid to the members of the Committee such reasonable travelling expenses as may be fixed by the Council with the approval of the Privy Council.

(9) The expenses of the Statutory Committee (including any such fees payable to any of the members thereof as may be fixed by the Council with the approval of the Privy Council) shall be defrayed by the Society.

(10) The provisions of the First Schedule to this Act shall have effect with respect to the proceedings of the Statutory Committee.

7.—(1) If a registered pharmacist, or a person employed by him in the carrying on of his business has been convicted of any such criminal offence, or been guilty of such misconduct as, in the opinion of the Statutory Committee, renders him, or in the case of an employee, would if he were a registered pharmacist, render him, unfit to be on the register, the committee, after making inquiry into the case, may, subject to the provisions of this Act, direct the registrar to remove the name of the pharmacist from the register.

(2) If the Statutory Committee thinks fit in any case so to do, it may, either of its own motion or on the application of the person concerned, direct the registrar to restore to the register, either without fee or on payment of such fee, not exceeding the fee payable on registration as a pharmacist, as may be prescribed by by-laws, any name or entry which has been removed from the register:

Provided that, where an appeal to the High Court against the removal of a name from the register has been dismissed by the High Court, a direction under this subsection in respect of that name shall not take effect unless approved by the Privy Council.

(3) The power of the Council to remove members from the Society and the power of the Privy Council to direct the removal of names from the register shall cease, but nothing in this section shall affect the provisions of sections ten, eleven and twelve of the Pharmacy Act, 1868, with respect to the erasure from the register of names and entries in the cases to which those sections respectively relate.

8. A registered pharmacist carrying on a business which comprises the retail sale of drugs shall be an authorised seller of poisons within the meaning of this Act if the following conditions are complied with—

(a) in each set of premises where the business is carried on the business must, so far as concerns the retail sale of drugs, be under the personal control of the pharmacist himself or of some other registered pharmacist; and

(b) the name and certificate of registration of the person having control of the business as aforesaid must be conspicuously exhibited in the premises.

9.—(1) Subject to the provisions of this section, a body corporate carrying on a business which comprises the retail sale of drugs shall be an authorised seller of poisons within the meaning of this Act if the following conditions are complied with—

(a) the business must, so far as concerns the keeping, retailing, dispensing and compounding of poisons, be under the management of a superintendent in relation to whom the following requirements are fulfilled:

(i) he must be a registered pharmacist;

(ii) a statement in writing signed by him and on behalf of the body corporate stating his name and specifying whether or not he is a member of the board must have been sent to the registrar;

(iii) he must not be acting at the time in a similar capacity for any other body corporate; and

(b) in each set of premises where the business is carried on, the business must, so far as concerns the retail sale of drugs, if not under the personal control of the superintendent, be carried on, subject to the directions of the superintendent, under the personal control of a manager or assistant who is a registered pharmacist; and

(c) the name and certificate of registration of the person having the control of the business as aforesaid, whether he is the superintendent or some other person, must be conspicuously exhibited in the premises.

(2) Notwithstanding the restrictions imposed by the foregoing provisions of this Act on the use of certain titles, emblems and descriptions, a body corporate which is an authorised seller of poisons may, if the superintendent is a member of the board, use the description of chemist and druggist, or of chemist, or of druggist, or of dispensing chemist or dispensing druggist, and the description "pharmacy" may be used in connection with the business:

Provided that nothing in this subsection shall authorise the use of any of the said descriptions in or on any premises which are for the time being disqualified by virtue of a direction under this section from being registered in the register of premises, or in connection with any business so far as it is carried on in any premises so disqualified.

(3) A body corporate which is entitled by virtue of the last foregoing subsection to use certain descriptions as therein provided may, if it is a private company within the meaning of the Companies Act, 1929, and every director of the company is a pharmaceutical chemist, also use the description of pharmaceutical chemist or of pharmacist.

(4) If—

(a) a body corporate which is an authorised seller of poisons has been convicted of an offence under the Pharmacy Acts; or

(b) any member of the board or any officer of that body, or any person employed by that body in carrying on the business, has been convicted of any such criminal offence, or been guilty of any such misconduct, as, in the opinion of the Statutory Committee, renders him, or would if he were a registered pharmacist render him, unfit to be on the register;

the Committee may inquire into the case and may, subject to the provisions of this Act, direct—

(i) that the body corporate shall cease to be, and be disqualified, for such period as may be specified in the direction, from being, an authorised seller of poisons; or

(ii) that any or all of the premises of the body corporate shall be removed from the register of premises and be disqualified, for such period as may be specified in the direction, from being registered therein.

(5) If the Statutory Committee thinks fit in any case

so to do, it may, either of its own motion or on the application of the body corporate concerned, direct that any disqualification imposed under this section shall cease:

Provided that where an appeal has been brought to the High Court against a direction involving a period of disqualification, a direction under this subsection for the cesser of any disqualification subsisting by virtue of the direction, whether as originally given or as modified by the High Court, shall not take effect unless approved by the Privy Council.

10.—(1) Subject to the provisions of this section, if a registered pharmacist who is an authorised seller of poisons dies or becomes of unsound mind or is adjudged bankrupt or enters into any arrangement with his creditors, any representatives who thereafter carry on his business in accordance with the conditions hereinafter specified and are persons in relation to whom the requirements of this section are satisfied shall, for the purposes of that business and during the period specified in subsection (4) of this section, be authorised sellers of poisons within the meaning of this Act and be entitled to use in conjunction with the business name of the pharmacist, such titles, emblems and descriptions as might have been used by the pharmacist.

(2) The conditions referred to in subsection (1) of this section are as follows:—

(a) in each set of premises where the business is carried on, the business, so far as concerns the retail sale of drugs, must be under the personal control of a registered pharmacist; and

(b) the name and certificate of registration of the person having the control of the business as aforesaid must be conspicuously exhibited in the premises.

(3) The requirements to be satisfied under subsection (1) of this section in relation to the representatives are that their names and addresses must be registered with the registrar, together with a statement of the name of the pharmacist whose representatives they are.

(4) The period referred to in subsection (1) of this section shall be—

(a) in the case of the death of a pharmacist, a period of five years from the date thereof;

(b) in the case of the unsoundness of mind or bankruptcy of a pharmacist, a period of three years from the date when he became of unsound mind or was adjudged bankrupt;

(c) in the case of an arrangement with the creditors of a pharmacist, a period of three years from the date when the representatives became entitled thereunder to carry on his business,

or such longer period as, on the application of the representatives, the Statutory Committee may, having regard to all the circumstances of the case, think fit to direct.

(5) If a representative or a person employed by the representatives in the carrying on of the business has been convicted of any such criminal offence, or been guilty of any such misconduct, as in the opinion of the Statutory Committee renders him, or would if he were a registered pharmacist render him, unfit to be on the register, the Statutory Committee, after making inquiry into the case, may, subject to the provisions of this Act, direct that the representatives shall cease to be authorised sellers of poisons and cease to be entitled to use the titles, emblems and descriptions which might have been used by the pharmacist.

(6) In this section the expression "representative" means an executor, administrator, trustee, or committee or a person authorised under section one of the Lunacy Act, 1908, to exercise in relation to a person of unsound mind not so found by inquisition any of the powers of a committee, and includes, in respect of the period of three months after the death of a pharmacist leaving no executor who is entitled and willing to carry on his business, any person beneficially interested in the estate of the pharmacist.

(7) Where immediately before the date on which this section comes into operation any executor, administrator or trustee of the estate of a deceased pharmacist was continuing the business of that pharmacist in accordance with the provisions of section sixteen of the Pharmacy Act, 1868, as amended by subsection (2) of section three

of the Pharmacy Act, 1908, this section shall apply to the representatives of the pharmacist as if he had died immediately after this section came into operation.

11.—(1) Where an act or omission which, under the foregoing provisions of this Act, may be made the ground of a direction by the Statutory Committee involving the cesser or restriction of the right of a person (in this section referred to as "the owner of the business") to be an authorised seller of poisons, is an act or omission on the part of an employee of the owner or, if the owner is a body corporate, is an act or omission on the part of any member of the board or any officer or employee of the body corporate, the Committee shall not give any such direction unless proof is given to its satisfaction of some one or more of the facts specified in the next succeeding subsection, and the Committee is of opinion that, having regard to the facts so proved, the owner ought to be regarded as responsible for the act or omission.

(2) The facts as to some one or more of which the Committee must be satisfied before giving any such direction as is mentioned in subsection (1) of this section are—

(a) that the act or omission in question was instigated or connived at by the owner of the business or, if the owner is a body corporate, by any member of the board;

(b) that the owner of the business, or any employee of the owner, or, if the owner is a body corporate, any member of the board or any officer or employee of the body corporate, had been guilty at some time within twelve months before the date on which the act or omission in question took place, of a similar act or omission and that the owner had, or reasonably ought to have had, knowledge of that previous act or omission;

(c) if the act or omission in question was a continuing act or omission, that the owner of the business had, or reasonably ought to have had, knowledge of the continuance thereof;

(d) in the case of a criminal offence being an offence under the Pharmacy Acts, that the owner of the business had not used due diligence to enforce the execution of those Acts.

(3) In this section references to the responsibility, knowledge or diligence of the owner of the business shall, if the owner is a body corporate, be construed as references to the responsibility, knowledge or diligence of the board as a whole.

12.—(1) Every authorised seller of poisons shall cause all the sets of premises where his business, so far as it comprises the retail sale of drugs, is being carried on to be registered under this section.

(2) An application for registration under this section shall be made in the manner prescribed by by-laws, and it shall be the duty of the registrar to keep, in accordance with the provisions of the by-laws, a register for the purposes of this section (in this Act referred to as "the register of premises") and, on payment of such fee as is hereinafter provided, to enter therein all sets of premises in respect of which an application for registration is duly made.

(3) On an application for registration under this section, there shall be payable such fee, not exceeding three pounds, as may be prescribed by by-laws, and the owner of the business carried on in any premises entered in the register shall pay such fee not exceeding three pounds as may be so prescribed (in this section referred to as "a retention fee") in respect of the retention of the premises on the register of premises in any year subsequent to the year in which the premises were first registered under this section in pursuance of an application made by him.

(4) Different fees may be prescribed under this section in relation to different circumstances.

(5) If a person on whom a demand has been made, in the manner prescribed by by-laws, for payment of a retention fee payable by him under this section fails to pay the fee within two months after the date on which the demand therefor was made, the Council may remove the premises from the register of premises, but if, either within the year in respect of which the fee is payable or within such longer period as the Council may allow, the owner of the business carried on in the premises pays to the Society the retention fee, together with such additional sum, if any, by way of penalty for the default, as may be prescribed by by-laws, the premises shall be

restored to the register, and, if the Council so directs, the restoration shall have effect as from the date on which the premises were removed from the register.

(6) The registration of any premises under this section shall become void on the expiration of fourteen days from the date of any change in the ownership of the business carried on therein.

(7) A document purporting to be a certificate signed by the registrar stating that, on a specified date, specified premises were, or were not, registered under this section shall be admissible in any proceedings as evidence that those premises were, or were not, registered on that date.

(8) In this section the expression "year" means a period of twelve months beginning on such date as the Council may from time to time determine.

13.—(1) Every authorised seller of poisons shall in the month of January in each year send to the registrar a list of all the sets of premises where his business, so far as it comprises the retail sale of drugs, is being carried on and the name of the registered pharmacist having the personal control of the business on each set of premises.

(2) An authorised seller of poisons who fails to comply with the provisions of this section shall be liable on summary conviction, in respect of each offence, to a fine not exceeding five pounds and to a further fine not exceeding one pound for every day subsequent to the day on which he is convicted of the offence during which the default continues.

14.—(1) The Statutory Committee shall cause notice of any direction given by the Committee under this Part of this Act to be given to the person to whom the direction relates and, where the Committee refuses an application for a direction under this Part of this Act, the Committee shall cause notice of the refusal to be given to the applicant.

A notice required by this subsection to be given to any person shall be sent to him by registered letter addressed to him, if he is a pharmacist, at his address in the register, and, if he is a representative within the meaning of section ten of this Act, at his address as last notified to the registrar, or, in the case of a person being a body corporate, shall be served on that body.

(2) A direction given by the Statutory Committee under this Part of this Act, other than a direction given on the application of the person to whom it relates, shall not take effect until the expiration of a period of three months from the date on which notice thereof is duly given to the person to whom it relates, or, in a case where an appeal has been brought against the direction, until the appeal is determined or withdrawn.

(3) A person aggrieved by a direction given by the Statutory Committee or by the refusal by the Committee of an application to the Committee to give a direction under this Part of this Act, may, at any time within three months from the date on which notice of the direction, or of the refusal, as the case may be, is given to him, appeal against the direction or refusal to the High Court.

(4) On an appeal under this Part of this Act the High Court may give such directions in the matter as they think proper, including directions as to the costs of the appeal, and the order of the High Court shall be final.

(5) Where a direction given by the Statutory Committee under this Part of this Act has taken effect or an order has been made by the High Court under this Part of this Act on an appeal against any such direction or refusal as aforesaid, it shall be the duty of the registrar to make such alterations in the register or the register of premises as are necessary to give effect to the direction or order.

PART II

POISONS

15. As from the appointed day the provisions of the Arsenic Act, 1851, and the provisions of the Pharmacy Acts relating to the sale and supply of poisons and poisonous substances shall cease to have effect and in lieu thereof the following provisions of this Part of this Act shall have effect.

16.—(1) For the purposes of this Act, there shall be an Advisory Committee, which shall be called, and is in this Act referred to as, "the Poisons Board."

(2) The Poisons Board shall be constituted in manner provided by the Second Schedule to this Act.

(3) The procedure of the Poisons Board shall (subject to any regulations made by the Board with the approval of the Secretary of State) be such as the Board may determine.

17.—(1) The Secretary of State shall as soon as may be after the passing of this Act cause the Poisons Board to prepare and submit to him for his approval a list of the substances which are to be treated as poisons for the purposes of this Act.

(2) The list to be prepared under this section shall be divided into two parts, as follows:—

Part I of the list shall consist of those poisons which, subject to the provisions of this Act, are not to be sold except by a person who is an authorised seller of poisons:

Part II of the list shall consist of those poisons which, subject to the provisions of this Act, are not to be sold except by a person who is an authorised seller of poisons or whose name is entered in a list kept under this Part of this Act by a local authority of persons who are to be entitled to sell poisons in Part II (in this Act referred to as a "local authority's list").

(3) In determining the distribution of poisons as between Part I and Part II of the said list, regard shall be had to the desirability of restricting the said Part II to articles which are in common use, or likely to come into common use, for purposes other than the treatment of human ailments, and which it is reasonably necessary to include in the said Part II if the public are to have adequate facilities for obtaining them.

(4) The Secretary of State shall forthwith take into consideration the list submitted to him by the Poisons Board, and may by order confirm it, with or without modifications, as he thinks proper:

Provided that where the Secretary of State proposes to confirm the list with modifications he shall inform the Board of the proposed modifications and give to the Board a reasonable opportunity of making any observations with respect thereto, and shall, before finally confirming the list, take into consideration any observations so made.

(5) The Secretary of State may from time to time, after consultation with or on the recommendation of the Poisons Board, by order amend or vary the said list as he thinks proper.

(6) The said list as in force for the time being is in this Act referred to as "the Poisons List," and in this Act the expression "poison" means a poison included in the Poisons List.

18.—(1) Subject to the provisions of this Part of this Act, it shall not be lawful—

(a) for a person to sell any poison included in Part I of the Poisons List, unless—

(i) he is an authorised seller of poisons; and
(ii) the sale is effected on premises duly registered under Part I of this Act; and
(iii) the sale is effected by, or under the supervision of, a registered pharmacist:

(b) for a person to sell any poison included in Part II of the Poisons List, unless either—

(i) he is an authorised seller of poisons and the sale is effected on premises duly registered under Part I of this Act; or

(ii) his name is entered in a local authority's list, and the sale is effected on premises specified in that list as being premises on which he is entitled, subject to the provisions of this Act, to sell poisons included in Part II of the Poisons List:

(c) for a person to sell any poison, whether included in Part I or in Part II of the Poisons List, unless the container of the poison is labelled in the prescribed manner—

(i) with the name of the poison; and
(ii) in the case of a preparation which contains a poison as one of the ingredients thereof, with the prescribed particulars as to the proportion which the poison contained in the preparation bears to the total ingredients; and

(iii) with the word "poison" or other prescribed indication of the character of the article; and

(iv) with the name of the seller of the poison and the address of the premises on which it was sold.

(2) Subject to the provisions of this Part of this Act and to any rules made under this Act dispensing with or relaxing any of the requirements of this subsection—

(a) it shall not be lawful to sell any poison included in Part I of the Poisons List to any person unless that person is either—

(i) certified in writing in the manner prescribed by rules, and by a person authorised by rules to give a certificate for the purposes of this section; or

(ii) known by the seller or by some registered pharmacist in the employment of the seller at the premises where the sale is effected,

to be a person to whom the poison may properly be sold:

(b) the seller of any such poison shall not deliver it until—

(i) he has made or caused to be made an entry in a book to be kept for that purpose stating, in the form prescribed by rules, the date of the sale, the name and address of the purchaser and of the person, if any, by whom the certificate required under paragraph (a) of this subsection was given, the name and quantity of the article sold, and the purposes for which it is stated by the purchaser to be required; and

(ii) the purchaser has affixed his signature to the entry aforesaid.

19.—(1) Nothing in the last foregoing section shall apply—

(a) to a medicine which is supplied by a duly qualified medical practitioner for the purposes of medical treatment, by a registered dentist for the purposes of dental treatment or by a registered veterinary surgeon for the purpose of animal treatment; or

(b) to a medicine which is dispensed by an authorised seller of poisons on premises duly registered under Part I of this Act; or

(c) to a poison forming part of the ingredients of a medicine which is supplied by an authorised seller of poisons on premises duly registered under Part I of this Act, if the requirements contained in the following provisions of this section are satisfied in relation thereto.

(2) The medicine must be distinctly labelled with the name and address of the person by whom it is supplied or dispensed.

(3) On the day on which the medicine is supplied or dispensed or, if that is not reasonably practicable, on the day next following that day, there must be entered in a book which is used regularly for the purpose of this provision but which need not be used exclusively for that purpose the following particulars—

(a) the date on which the medicine was supplied or dispensed;

(b) the ingredients of the medicine and the quantity thereof supplied;

(c) if the medicine was dispensed by an authorised seller of poisons, the name or initials and, if it is known, the address of the person by whom, and the name and, if it is known, the address of the person to whom, and the date on which, the prescription was given;

(d) if the medicine was not so dispensed, the name of the person to whom it was supplied:

Provided that the provisions of this subsection—

(a) need not be satisfied in the case of a medicine which is supplied on and in accordance with a prescription given by a duly qualified medical practitioner under and in accordance with the Acts relating to national health insurance; and

(b) shall, in the case of a medicine supplied on a prescription on which the medicine has been supplied by the seller on a previous occasion, be deemed to be complied with if the day on which the medicine is supplied and the quantity thereof supplied are entered in the book on that day or, if that is not reasonably practicable, on the day next following that day, together with a sufficient reference to an entry in the book duly recording the dispensing of the medicine on the previous occasion.

(4) In the case of a medicine which is supplied or dispensed by a person who is an authorised seller of poisons and is compounded by the person supplying or dispensing it or by a person in his employment, the medicine must have been compounded by or under the direct and personal supervision of a registered pharmacist.

(5) In the case of a medicine which is supplied or dis-

pensed by a person who is an authorised seller of poisons, the supplying or dispensing of the medicine must be effected by or under the direct and personal supervision of a registered pharmacist.

20. Except as provided by rules, nothing in the foregoing provisions of this Part of this Act shall extend to or interfere with—

(1) the sale of poisons by way of wholesale dealing; or

(2) the sale of poisons to be exported to purchasers outside the United Kingdom; or

(3) the sale of an article to a duly qualified medical practitioner, registered dentist or registered veterinary surgeon for the purpose of his profession; or

(4) the sale of an article for use in or in connection with any hospital, infirmary, dispensary or similar institution approved by an order, whether general or special, of the Secretary of State; or

(5) the sale of an article by a person carrying on a business, a substantial part of which consists of the sale of poisons either by way of wholesale dealing or for use by the purchasers thereof in their trade or business to—

(a) a person who requires the article—

(i) for the purpose of his trade or business; or

(ii) for the purpose of enabling him to comply with any requirements made by or in pursuance of any enactment with respect to the medical treatment of persons employed by that person in any trade or business carried on by him; or

(b) a Government department or an officer of the Crown requiring the article for the purposes of the public service, or any local authority (whether a local authority as defined in this Act or not) requiring the article in connection with the exercise by the authority of any statutory powers; or

(c) a person or institution engaged in scientific education or research, if the article is required for the purposes of that education or research.

21.—(1) Every local authority shall keep for the purposes of this Part of this Act a list of persons who, not being entitled to sell poisons included in Part I of the Poisons List, are, subject to the provisions of this Act, to be entitled to sell poisons included in Part II of the Poisons List, and shall, subject as hereinafter provided, enter in the list the name of any person who, having premises in the area of the authority, makes an application to the local authority in the form prescribed by rules to have his name entered in the list as a person entitled subject to the provisions of this Act to sell such poisons on those premises:

Provided that the local authority may refuse to enter in, or may remove from, the list the name of any person who fails to pay the fees prescribed by rules or who in the opinion of the authority is, for any sufficient reason relating either to him personally or to his premises, not fit to be on the list.

(2) If any person is aggrieved by the refusal of the local authority to enter his name in the said list or by the removal of his name therefrom under this section, he may, in accordance with rules made for the purposes of this section by the Secretary of State, appeal against the refusal or removal to the court of quarter sessions for the county or borough in which his place of business is situate.

(3) A local authority's list shall include particulars of the premises on which respectively the persons whose names are entered in the list are entitled to sell poisons included in the said Part II, and subject as aforesaid the said list shall be in the form prescribed by rules.

(4) Every person shall pay to the local authority such fees as may be prescribed by rules in respect of—

(a) the entry of his name in the local authority's list; and

(b) the making of any alteration in the local authority's list in relation to the premises on which he is entitled to sell; and

(c) the retention of his name on the local authority's list in any year subsequent to the year in which his name is first entered therein.

(5) If any person whose name is entered in a local authority's list is convicted before any court of any criminal offence which, in the opinion of the court, renders him unfit to have his name on the list, the court may, as part of the sentence, order his name to be

removed from the list and direct that he shall, for such period as may be specified in the order, be disqualified for having his name entered in any local authority's list.

(6) Every local authority's list shall be open at all reasonable times to the inspection of any person without fee.

(7) In this section—

The expression "relating to him personally" means, in relation to a person being a body corporate, relating personally to the members of the board, or to the managers or other officers of the body corporate:

The expression "year" means a period of twelve months beginning on such date as the local authority may from time to time determine.

(8) It shall not be lawful for any person whose name is entered in a local authority's list to use in connection with his business any title, emblem or description reasonably calculated to suggest that he is entitled to sell any poison other than a poison which he is under this Act entitled to sell, and if any person acts in contravention of this subsection he shall be liable on summary conviction, in respect of each offence, to a fine not exceeding twenty pounds and, in the case of a continuing offence, to a further fine not exceeding five pounds for every day subsequent to the day on which he is convicted of the offence during which the contravention continues.

22. It shall not be lawful for a poison to be exposed for sale in, or to be offered for sale by means of, an automatic machine.

PART III

MISCELLANEOUS

23.—(1) The Secretary of State may, after consultation with or on the recommendation of the Poisons Board, make rules with respect to any of the following matters or for any of the following purposes:

(a) the manufacture of pharmaceutical preparations containing poisons:

(b) the sale, whether wholesale or retail, or the supply of poisons, by or to any persons or classes of persons and in particular but without prejudice to the generality of the foregoing provisions—

(i) for regulating or restricting the sale or supply of poisons by persons whose names are entered in a local authority's list and for prohibiting the sale of any specified poison or class of poisons by any class of such persons; and

(ii) for prohibiting the sale by retail of poisons (being poisons included in Part I of the Poisons List) except on a prescription duly given by a duly qualified medical practitioner, registered dentist or registered veterinary surgeon, and for prescribing the form and regulating the use of prescriptions given for the purpose of rules made under this paragraph; and

(iii) for dispensing with or relaxing with respect to poisons any of the provisions contained in Part II of this Act relating to the sale of poisons:

(c) the storage, transport and labelling of poisons:

(d) the containers in which poisons may be sold or supplied:

(e) the addition to poisons of specified ingredients for the purpose of rendering them readily distinguishable as poisons:

(f) the compounding and dispensing of poisons:

(g) the period for which any books required to be kept for the purposes of Part II of this Act are to be preserved:

(h) the period for which any certificate given under Part II of this Act is to remain in force:

(i) for requiring persons in control of the manufacture of pharmaceutical preparations containing poisons to be registered pharmacists or persons possessing the prescribed qualification in chemistry:

(j) for prescribing anything which is by this Act to be prescribed by rules.

(2) The power to make rules under this section with respect to poisons includes the power to make rules with respect to any class of poisons or any particular poison.

24.—(1) A person who acts in contravention of or fails to comply with any of the provisions of Part II of this Act (other than subsection (8) of section twenty-one of this Act), or any rules made under this Part of this Act shall, on summary conviction, be liable in

respect of each offence to a fine not exceeding fifty pounds, and, in the case of a continuing offence, to a further fine not exceeding ten pounds for every day subsequent to the day on which he is convicted of the offence during which the contravention or default continues.

(2) In the case of proceedings against a person under this section for or in connection with the sale, exposure for sale or supply of a poison effected by an employee—

(a) it shall not be a defence that the employee acted without the authority of the employer; and

(b) any material fact known to the employee shall be deemed to have been known to the employer.

(3) Notwithstanding any provision in any Act prescribing the period within which summary proceedings may be commenced, proceedings for an offence under this Act may be commenced at any time within the period of twelve months next after the date of the commission of the offence or, in the case of proceedings instituted by, or by the direction of, the Secretary of State, either within the period aforesaid or within the period of three months next after the date on which evidence sufficient in the opinion of the Secretary of State to justify a prosecution for the offence comes to his knowledge, whichever period ends on the later date.

For the purposes of this subsection, a certificate purporting to be signed by the Secretary of State as to the date on which such evidence as aforesaid came to his knowledge shall be conclusive evidence thereof.

(4) A fine recovered in proceedings instituted under this Act by, or by the direction of, the Society shall, notwithstanding anything in any public or other Act, be paid to the Society.

(5) A document purporting to be a certificate signed by a public analyst or person appointed by the Secretary of State to make analyses for the purposes of this Act stating the result of an analysis made by him, shall be admissible in any proceedings under this Act as evidence of the matters stated therein but either party may require the person by whom the analysis was made to be called as a witness.

25.—(1) It shall be the duty of the Society, by means of inspection and otherwise, to take all reasonable steps to enforce the provisions of Part I of this Act and to secure compliance by registered pharmacists and authorised sellers of poisons with the provisions of Part II of this Act, and of the rules, and the Society shall for that purpose appoint such number of inspectors as the Privy Council may direct.

(2) A person shall not be qualified for appointment by the Society as inspector under this section unless he is a registered pharmacist, and every such appointment shall be subject to the approval of the Privy Council.

(3) A person appointed by the Society as inspector under this section shall hold his office subject to such conditions with respect to salary and otherwise as the Council may with the approval of the Privy Council determine.

(4) An inspector appointed by the Society under this section shall, for the purpose of enforcing the provisions of Part I of this Act and for securing compliance by registered pharmacists and authorised sellers of poisons with the provisions of Part II of this Act and of the rules made under this Part of this Act, have power at all reasonable times to enter any premises which are on the register of premises and shall, for the purpose of securing compliance by other persons with the provisions of the said Part II and of the said rules, so far as those provisions relate to poisons included in Part I of the Poisons List, have power to enter any premises in which he has reasonable cause to suspect that a breach of the law has been committed in relation to any such poisons, and in either case shall have power to make such examination and inquiry and to do such other things (including the taking, on payment therefor, of samples) as may be necessary for ascertaining whether the provisions aforesaid are being complied with.

(5) It shall be the duty of every local authority by means of inspection and otherwise to take all reasonable steps to secure compliance by persons not being authorised sellers of poisons with the provisions of Part II of this Act and of the rules made under this Part of this Act so far as those provisions relate to poisons included

in Part II of the Poisons List, and for that purpose to appoint inspectors, and an inspector appointed by the Society in pursuance of subsection (1) of this section may, with the consent of the Society, be appointed by a local authority to be also an inspector for the purposes of this subsection.

(6) An inspector appointed by the local authority shall, for the purposes of the last preceding subsection, have power at all reasonable times to enter any premises on which any person whose name is entered in a local authority's list carries on business, and any premises on which the inspector has reasonable cause to suspect that a breach of the law has been committed in respect of any poisons included in Part II of the Poisons List, and in either case shall have power to make such examination and inquiry and to do such other things, including the taking, on payment therefor, of samples, as may be necessary for the purposes of the inspection.

(7) An inspector appointed by a local authority in England for the purposes of subsection (5) of this section shall have power with the consent of the local authority to institute proceedings under this Act before a court of summary jurisdiction in the name of the authority, and to conduct any proceedings so instituted by him notwithstanding that he is not of counsel or a solicitor.

(8) If a person wilfully delays or obstructs an inspector in the exercise of any powers under this section, or refuses to allow any sample to be taken in accordance with the provisions of this section, or fails without reasonable excuse to give any information which he is duly required under this section to give, he shall in respect of each offence be liable on summary conviction to a fine not exceeding five pounds.

(9) Without prejudice to the generality of the foregoing provisions, it shall be the duty of every person who appears to be conducting in any premises any business which comprises the retail sale of drugs to state, on being required so to do by an inspector appointed under this section, who the owner of the business is, and if any person fails without reasonable excuse to comply with the provisions of this subsection he shall be liable on summary conviction, in respect of each offence, to a fine not exceeding five pounds.

(10) Nothing in this section shall authorise any inspector appointed thereunder to enter or inspect the premises, not being a shop, of a duly qualified medical practitioner, a registered dentist or a registered veterinary surgeon.

26.—(1) All orders and rules made by the Secretary of State under this Act shall be laid before each House of Parliament for a period of thirty days during the Session of Parliament and, if an Address is presented to His Majesty by either House of Parliament before the expiration of that period, praying that the order or rule may be annulled, it shall thenceforth be void, but without prejudice to the validity of anything previously done thereunder or to the making of any new order or rule:

Provided that in reckoning any such period of thirty days as aforesaid no account shall be taken of any time during which both Houses of Parliament are adjourned for more than four days.

(2) If the Secretary of State—

(a) makes an order confirming the Poisons List with modifications in which the Poisons Board do not concur; or

(b) by order makes amendments or variations in the Poisons List in which the Board do not concur; or

(c) makes rules under this Act in which the Board do not concur,

he shall, together with the order or rules, lay before each House of Parliament a statement of his reasons for making the order or rules.

27. Any expenses incurred by a local authority under this Act shall be defrayed, in the case of the Common Council of the City of London, out of the general rate, in the case of the council of a county, as general county expenses, and, in the case of the council of a county borough, out of the general rate fund.

28. Subsection (2) of section seven of the Dangerous Drugs Act, 1920, shall have effect as if for the reference to a person who lawfully keeps open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and

Pharmacy Act, 1908, there were substituted a reference to a person lawfully carrying on business in accordance with the provisions of this Act as an authorised seller of poisons.

29. In this Act, unless the context otherwise requires, the following expressions have the meanings hereby respectively assigned to them, that is to say:—

"Arrangement with creditors" means a composition or scheme made in pursuance of the law for the time being in force relating to bankruptcy or a deed of arrangement to which the Deeds of Arrangement Act, 1914, applies:

"Authorised seller of poisons" means any of the persons declared by section eight, section nine and section ten respectively of this Act to be authorised sellers of poisons within the meaning of this Act:

"The board" means, in relation to a body corporate, the persons controlling that body, by whatever name called:

"By-laws" means by-laws made by the Society:

"Certificate of registration" means such a certificate as is mentioned in section thirteen of the Pharmacy Act, 1868:

"The Council" means the Council of the Society:

"Dispensing" in relation to a medicine or a poison means supplying a medicine or a poison on and in accordance with a prescription duly given by a duly qualified medical practitioner, a registered dentist or a registered veterinary surgeon:

"Local authority" means in London, as respects the City of London, the Common Council, as respects the rest of the administrative county of London, the County Council, and elsewhere as respects a county the council of the county, and as respects a county borough the council of the borough:

"Pharmacist" means a pharmaceutical chemist or a chemist and druggist:

"Pharmacy Acts" means the Pharmacy Act, 1852, the Pharmacy Act, 1868, the Pharmacy Acts Amendment Act, 1898, the Poisons and Pharmacy Act, 1908, and sections three and four, and so far as it relates to poisons, section five of the Dangerous Drugs and Poisons (Amendment) Act, 1923, and, if the context so admits, includes a reference to this Act, and a reference to this Act includes a reference to rules made under Part III of this Act:

"Poison" means a poison included in the Poisons List:

"Public analyst" means a public analyst appointed under the Food and Drugs (Adulteration) Act, 1928:

"Register" means the register of pharmaceutical chemists or the register of chemists and druggists:

"Registered" means—

(a) in relation to a pharmacist, duly registered in the register:

(b) in relation to a veterinary surgeon, registered in pursuance of the Veterinary Surgeons Act, 1881, either in the register of veterinary surgeons or in the register of existing practitioners:

(c) in relation to a dentist, registered under the Dentists Act, 1878:

"Registered dentist" includes a body corporate entitled to carry on the business of dentistry:

"Registrar" means the registrar appointed under section four of the Pharmacy Act, 1852:

"Rules" means rules made by the Secretary of State under this Part of this Act:

"Sale by way of wholesale dealing" means sale to a person who buys for the purpose of selling again:

"The Society" means the Pharmaceutical Society of Great Britain.

30. This Act in its application to Scotland shall have effect subject to the following modifications:—

(a) references to the High Court shall be construed as references to the Court of Session:

(b) references to proceedings taken by, or by the direction of, the Society shall not apply:

(c) references to a body corporate shall be deemed to include references to a firm, and in the application to a firm of any provision regarding a body corporate a reference to a member of the board shall be construed as a reference to a partner:

(d) any reference to a person adjudged bankrupt shall

be construed as a reference to a person of whose estate sequestration has been awarded, and the expression "adjudged bankrupt" shall be construed accordingly:

(e) the expression "arrangement with creditors" shall mean a trust deed for behoof of creditors or composition contract:

(f) subsection (6) of section ten shall have effect as if the references to a committee and to a person authorised to exercise the powers of a committee were omitted, and as if references to a curator bonis and a judicial factor were inserted:

(g) the expression "local authority" shall mean, as respects a county, the council of the county, and as respects a large burgh within the meaning of the Local Government (Scotland) Act, 1929, the town council, and all other burghs shall be deemed to be within the county:

(h) any expenses incurred by a county or town council under this Act shall be defrayed out of such rate payable by owners and occupiers in equal proportions as the Council may determine:

(i) section twenty-one shall have effect as if the reference to rules made by the Secretary of State were omitted and as if for the appeal mentioned in subsection (2) of the said section there were substituted an appeal to the sheriff within whose jurisdiction the appellants' place of business is situate:

(j) references in subsection (3) of section twenty-four to the Secretary of State shall be construed as references to the Lord Advocate.

31.—(1) This Act may be cited as the Pharmacy and Poisons Act, 1933, and the Pharmacy Acts and this Act may be cited together as the Pharmacy and Poisons Acts, 1852 to 1933.

(2) This Act shall come into operation on the appointed day, and the appointed day shall be such day as His Majesty may by Order in Council appoint, and different days may be appointed for different purposes and for different provisions of this Act.

(3) This Act shall not extend to Northern Ireland.

(4) The enactments mentioned in the Third Schedule to this Act are hereby repealed to the extent specified in the third column of that Schedule.

SCHEDULES

FIRST SCHEDULE

PROCEEDINGS OF THE STATUTORY COMMITTEE

1. The quorum of the Statutory Committee shall be three, of whom the chairman shall be one, and the Committee shall, subject as hereinafter provided, have power to act by a majority of the members present:

Provided that no order directing—

(1) that the name of a pharmacist shall be removed from the register; or

(2) that a body corporate shall cease to be an authorised seller of poisons or that all or any of the premises of the body corporate shall be removed from the register of premises and be disqualified for any period from being registered therein; or

(3) that the representatives of a pharmacist shall cease to be authorised sellers of poisons or cease to be entitled to use any title, emblem, or description shall be made except with the assent of the chairman of the Committee.

2. In the case of an equality of votes, the chairman of the Committee shall have a casting vote.

3. The Statutory Committee may make regulations as to the procedure to be followed by them in exercising the jurisdiction conferred on them by this Act, but no such regulation shall have effect until confirmed by the Privy Council and the Privy Council may confirm any such regulation either with or without modifications:

Provided that where the Privy Council propose to confirm the regulations with modifications the Privy Council shall inform the Committee of the proposed modifications and give to them a reasonable opportunity of making any observations with respect thereto, and shall, before finally confirming the regulations, take into consideration any observations so made.

4. Every regulation made and confirmed under this Schedule shall be laid before each House of Parliament for a period of thirty days during the Session of Parliament and if an Address is presented to His Majesty by either House of Parliament before the expiration of that period praying that the regulation may be annulled it shall thenceforth be void

but without prejudice to the validity of anything previously done thereunder or to the making of any new regulation:

Provided that in reckoning any such period of thirty days as aforesaid, no account shall be taken of any time during which both Houses of Parliament are adjourned for more than four days.

SECOND SCHEDULE

CONSTITUTION OF POISONS BOARD

1. The Board shall consist of sixteen members:

Provided that the Secretary of State may from time to time if he thinks fit appoint additional members of the Board, not exceeding three in all.

2. The Board shall be composed of the following persons, namely:—

One person appointed by the Secretary of State for the Home Department;

One person appointed by the Secretary of State for Scotland;

Two persons appointed by the Minister of Health;

One person appointed by the Minister of Agriculture and Fisheries;

The person who is for the time being the Government Chemist or in his absence a member of his staff nominated by him;

Five persons appointed by the Council of the Pharmaceutical Society of Great Britain, of whom one shall be a person engaged in the manufacture for sale by way of wholesale dealing of pharmaceutical preparations;

One person appointed by the Royal College of Physicians of London;

One person appointed by the Royal College of Physicians of Edinburgh;

One person appointed by the General Medical Council;

One person appointed by the Council of the Institute of Chemistry of Great Britain and Ireland;

One person appointed by the British Medical Association;

The additional members, if any, appointed by the Secretary of State.

3. Such member of the Board as the Secretary of State may appoint shall be the Chairman.

4. The appointed members of the Board shall hold office for a term of three years.

5. If the place of an appointed member of the Board becomes vacant before the expiration of his term of office, whether by death, resignation or otherwise, the vacancy shall be filled by appointment by the body or person by whom the vacating member was appointed, and any person appointed to fill a casual vacancy shall hold office so long only as the member to whose place he was appointed would have held office.

6. Any appointed member ceasing to be a member of the Board shall be eligible for reappointment.

7. The powers of the Board may be exercised notwithstanding any vacancy in their number.

8. The quorum of the Board shall be eleven.

THIRD SCHEDULE

ENACTMENTS REPEALED

Session and Chapter	Short Title	Extent of Repeal
14 & 15 Vict. c. 13.	The Arsenic Act, 1851 ...	The whole Act.
15 & 16 Vict. c. 56.	The Pharmacy Act, 1852	In section two, the words "by a Special General Meeting of the Members of the said 'Pharmaceutical Society, 'and'"
		In section ten, the words "and 'every such person duly 'registered as a pharma- 'ceutical chemist shall be 'eligible to be elected as a 'member of the said 'Society.'"
		Sections twelve, thirteen, and fourteen.
31 & 32 Vict. c. 121.	The Pharmacy Act, 1868	Sections one, two, fifteen, sixteen, seventeen and twenty-six, and Schedule F.
32 & 33 Vict. c. 117.	The Pharmacy Act, 1869	The whole Act.
61 & 62 Vict. c. 25.	The Pharmacy Acts Amendment Act, 1898.	Section three.
8 Edw. 7. c. 55	The Poisons and Pharmacy Act, 1908.	Sections one, two, three, and five, and the Schedule.
13 & 14 Geo. 5. c. 5.	The Dangerous Drugs and Poisons (Amendment) Act, 1923.	Sections three and four, and in section five the words "of the Schedule to the Poisons 'and Pharmacy Act, 1908, 'and"

Pharmaceutical Society of Great Britain

Edinburgh Evening Meeting

THE fourth Edinburgh meeting of the session was held at 36 York Place on February 17, Mr. J. B. McVittae (chairman of the Executive) presiding. The first communication was:—

Note on Natal Aloes

By E. G. BRYANT, PH.C., B.Sc., PH.D.

[ABSTRACT]

ATTEMPTS to obtain Natal aloes, which was a familiar drug thirty years ago, have recently proved to be fruitless. Whilst the botanical source of the drug appears to have been indefinite, it is usually ascribed to *Aloe succotrina*. Up to the early years of the present century, Natal aloes appears to have been an article of commerce. Of recent years it has entirely disappeared from the market. I may quote the letter which I received from a well-known wholesale house which had previously supplied a sample of "Natal aloes" which had none of the characters of the drug:—

"... in connection with the aloes which we recently supplied to you as 'Natal aloes'... This particular parcel of aloes was bought several years ago as genuine Natal aloes. ... We have shown the specimen to a dealer... in his opinion the aloes resemble the variety which comes into the market as 'Uganda aloes.' Natal aloes does not enter the market now—at any rate under the description 'Natal aloes.'"

The specimen of aloes in question bears some resemblance to "Uganda" or "Crown aloes," which is Cape aloes subjected to a process of fermentation. It responds to the reactions for Cape aloes, as does the unknown sample, the latter much more slowly than the Uganda. The unknown sample is of a chocolate-brown colour, with a waxy or, sometimes, conchoidal fracture, and friable. In view of this curious situation, it seemed desirable to get into touch with persons in South Africa. Mr. C. M. Forsyth (Ladysmith) and Mr. E. C. Davies (Durban) inform me that not only is "Natal aloes" not now obtainable in South Africa, but that it is impossible to trace anyone who has had dealings in the drug. Cape aloes is extensively used. In a letter from the Natal Herbarium, Botanic Gardens, Durban, to Mr. Davies, it is stated that *Aloe succotrina* occurs plentifully on Table Mountain, but does not grow naturally in Natal, and it seems very probable that *Aloe succotrina* has no connection whatever with Natal aloes. With reference to this statement, the director of the National Botanical Gardens, Kirstenbosch, states that the information regarding the occurrence of *Aloe succotrina* on Table Mountain is correct, though the plant is by no means plentiful. The director further states that the juice of this plant is never used for the production of commercial aloes. The fact that it was originally named "*Aloe succotrina*" was owing to a mistake made long ago that this plant was the source of the so-called Socotra aloes, with which it has, of course, nothing to do. The director was good enough to furnish a small quantity of the juice of the authentic *Aloe succotrina*. It will be seen that it has none of the characteristics of the Natal aloes, nor of the juice which has been recently supplied under that name. The botanical name of Natal aloes is certainly not *Aloe succotrina*, but we are still unable to account for the disappearance of the once well-known drug from the market. The juice of *Aloe candelabrum* yields the reactions of Natal aloes, and it is from this plant, as well as *Aloe marlothii*, that the commercial drug was obtained. I have not been able to procure a sample of the latter juice. As to the identity of the juice which has been supplied as Natal aloes, since that appears to be a variety of Cape aloes, giving as it does the reactions of this variety, we may conclude that it is derived either from *Aloe ferox*, Mill., from *Aloe plicatilis*, Mill., or from *Aloe africana*, Mill. These are the sources of Cape aloes cited

by Watt and Breyer-Brandwijk, and those recognised by the Italian Pharmacopœia, 1930. (Dr. Bryant gave a table showing the varieties of aloes official in the leading pharmacopœias.)

DISCUSSION

The CHAIRMAN said in his experience aloes seemed to be disappearing entirely from the materia medica. Its place appeared to be taken by phenolphthalein and similar substances.

MR. WILSON said he had a specimen which was described as Natal aloes. On examining it, however, he could get none of the characteristic reactions of Natal aloes, but found all the characters of Cape aloes. His impression now was that his specimen must be the same as the one mentioned by Dr. Bryant and possibly also from the same source.

MR. HILL said Dr. Bryant's communication was of pharmacognostic value in endeavouring to clear up a somewhat confused position in their materia medica records. In olden days they had three aloins, socoloin, barbaloin, and nataloin. The first two were found to be identical, but the third differed distinctly in containing a methoxy group.

DR. TAIT said he was struck by the remark that Cape aloes was used in the making of sheep dip, and he wondered what value it had in that connection.

DR. BRYANT, in replying, said he could not say why aloes was used as a sheep dip. Insects generally were repelled by bitter substances. With regard to the disappearance of aloes from prescriptions, that indicated a general tendency. The crude drugs were being displaced by their active principles. It would seem highly probable that the sample referred to by Mr. Wilson was a portion of the same consignment as the one he had obtained.

The next communication was on:—

The Solubility of Arsenicals

By E. G. BRYANT, PH.C., B.Sc., PH.D.

[ABSTRACT]

IN an investigation of the keeping properties of liquor arsenicalis, B.P., 1932, it has been found that samples deposit moulds and sometimes mineral substances. During the course of these examinations we were struck with the variability of the solubility of different samples of arsenic trioxide. Three samples alone will serve to illustrate this point.

Sample A.—This was a sample of commercial white arsenic trioxide, such as is supplied for use in agriculture and horticulture. It showed a yellowish colour, but was readily and completely soluble in the aqueous potassium hydroxide prescribed in the making of liquor arsenicalis. The solution was water-white, and neither deposited mineral precipitates nor developed moulds.

Sample B.—This was a specimen of arsenic trioxide, A.R. It dissolved perfectly freely, and also showed no decomposition in solution.

Sample C.—This sample was also of A.R. grade. It was found impossible to dissolve more than 90 per cent. of the substance in the pharmacopœial proportion of solution of potassium hydroxide. No deposit was formed from the solution. By increasing the proportion of potassium hydroxide solution, the arsenic trioxide was found to dissolve completely. This latter circumstance may account for the formation of a crystalline deposit in the liquor.

One sample of the liquor submitted was found to have two deposits, the first of potassium chloride, and the second, on the floor of the bottle, of an amorphous character. Arsenic trioxide occurs in three forms:—(a) vitreous, (b) octohedral, and (c) rhombic. It can readily be appreciated that the conditions of manufacture will

result in the production of arsenic trioxide, which, though chemically pure, may be composed of any one or more of the varieties. The vitreous variety dissolves much more readily and completely in water than does the octahedral, giving a solubility at room temperature up to 3.7 per cent., whilst at boiling point the solubility reaches 10.2 per cent. The formation of the amorphous deposit may be due either to the production of the rhombic form or to the hydration of the arsenic trioxide.

Arsenic Triiodide.—Wide variations in the solubility of arsenic triiodide have been observed. In the main these variations are due to the presence of free elementary arsenic in the compound. As much as 30 per cent. of free arsenic has been found in commercial samples. The compound may be formed by the direct combination of arsenic with an ethereal solution of iodine. If the reaction is stopped before the combination is complete, we have an explanation of the presence of the free arsenic. It has been found that if the arsenic triiodide is made by the interaction of a hydrochloric solution of arsenic trioxide with potassium iodide, arsenic triiodide is formed which has no trace of free arsenic.

DISCUSSION

MR. BLAIR said this was a further contribution to a problem causing considerable trouble. Many research workers had been unable to reproduce the fungoid condition which had been noted, although keeping their experimental bottles under all sorts of conditions. In attempting to clear up the problem he had obtained samples of arsenic trioxide, B.P., 1932, from different manufacturers with surprising results. One replied expressing regret that they had been unable to manufacture an arsenic trioxide to meet the requirements of the B.P., 1932, and it would seem that other manufacturers had also been unable to produce the official article. It seemed that even during the period of the B.P., 1914, the arsenic trioxide did not answer the official test. Recently it had been stated that the trouble was due to a fungoid growth. Proceeding on the lines of bacterial contamination during manufacture, absolutely fresh distilled water was used and immediately the batch was completed 0.1 per cent. of chloroform was added in the hope of inhibiting fungoid growth, but without success.

MR. GILMOUR said he was surprised to learn that Dr. Bryant had come across no trouble in the making of the new liquor arsenicalis. He (Mr. Gilmour) had a sample which had been kept in a sealed bottle since November. There was no deposit or separation of crystals, but a distinct fungoid growth had made its appearance. The practical point that worried the dispenser was to know what to supply when he got a prescription such as one he had for liquor Fowleri 4 drachms, water to 8 ounces. The B.P., 1932, gave liquor Fowleri as a synonym for liquor arsenicalis. On referring to the prescriber he found that what he wanted was the alkaline liquor Fowleri containing compound tincture of lavender.

MR. KELLY said he would like to ask if it was correct pharmaceutical procedure to dispense a liquor arsenicalis which had developed a fungoid growth.

MR. CURRIE said medical men did not keep themselves well up to date. They might know what to dispense by turning up the doctor's year of graduation.

MR. BOA said all this trouble came from introducing this new preparation, and was a good example of not leaving well alone. He had never heard complaints about the alkaline and acid solutions of arsenic.

MR. M. HUNTER said he had experienced no difficulty in making the new liquor arsenicalis.

DR. BRYANT, in replying, said he had been entirely unsuccessful in getting a liquor arsenicalis showing any of the defects which had been reported. He had prepared it with distilled water and tap water and in various ways. It had been asked how fungoid growths could appear in face of the fact that arsenic was used as a fungicide. It had to be remembered, however, that all weed-killers were strongly alkaline, and he had never heard that the alkaline solution of arsenic had given rise to any fungoid growth. Possibly the neutrality of the new official solution made the development of fungoid growths possible. He had failed to find any evidence of a colloidal condition in the neutral solution of arsenic.

The next communication was a

Note on Compound Tincture of Cardamom, B.P., 1932

By R. ERIC HUNTER, Ph.C.

[ABSTRACT]

THIS note deals with the decolorisation of the mixture, one of the minor problems which are so common and for which a satisfactory solution is not always readily found. The following prescription was dispensed:—

Potass. brom.,			
Spt. amm. arom.,	..	..	aa. ʒiij
Tr. cardam. co.	..	..
Syr. aurant. ..	..	..	ʒvj
Aq. chlorof. ..	..	..	ad ʒviij

Further experiment upon the tincture revealed that the cause of the colour fading was not really due to the other ingredients of the mixture, as another sample of the tincture retained its colour. The mixture was originally dispensed with tinct. cardam. co., B.P., 1914, and remained a red colour for some considerable time. When dispensed with the first sample of 1932 tincture, the usual deep colour produced by the alkalinity of the spt. amm. aromat. was not observed, and in two or three hours what reddish colour there was had almost entirely vanished. The order of mixing the ingredients did not seem to affect the decolorisation. At this point one wondered if the alteration in the formula of the 1932 tincture was the cause. However, another sample of the tincture was obtained and the mixture made up in exactly the same way and left to stand. This retained the colour over a period of three or four days, and only then began to show a trace of decolorisation. On examination of the two samples of tincture, the first appeared to the eye to be in order, but in comparison with the second sample was noticed to be deficient in colour, and one could only come to the conclusion that in the first sample the cochineal had not been properly bruised or ground, so that the alcohol did not extract sufficient colour principle, or that the second sample had an additional colouring ingredient. This idea of the additional colouring, however, had to be rejected, as the mixture, on using a sample of the tinct. cardam. co., B.P., 1914, also retained its colour. (Samples were exhibited.)

DISCUSSION

MR. HILL said he had prepared this mixture using sodium bromide and also using potassium bromide. The result completely upset former experience. With sodium bromide the purple colour remained for several hours, and now, some seven hours after compounding, the colour was not entirely discharged. With potassium bromide, on the other hand, decolorisation began almost immediately and was complete within one hour. The 1932 B.P. tincture, so far as incompatibilities were concerned, seemed in no way essentially different. Dispensing the prescription, putting in, in place of compound tincture of cardamom, the equivalent in cochineal content of tincture of cochineal, decolorisation took place precisely as when dispensed with compound tincture of cardamom. It appeared, therefore, that the reaction was between cochineal and the ingredients of the mixture.

MR. BOA said he had that day seen dispensed a prescription containing bismuth carbonate and compound tincture of cardamom in which the colour was completely discharged. The trouble with tincture of cardamom would remain until someone discovered a more suitable and permanent colour than cochineal.

MR. KELLY said he thought the use of the colour known as raspberry-red might be a satisfactory substitute for cochineal in tincture of cardamom.

MR. GILMOUR said he had experience of a mixture containing Fowler's solution and tinct. cardam. co. which gave a good colour and kept well. It seemed, therefore, that the alkali did not lead to decolorisation, but possibly ammonia acted differently.

DR. BRYANT said he could corroborate Mr. Boa's objections to cochineal. A better result was got if the cochineal was previously defatted.

MR. HILL, replying for Mr. Hunter, said Mr. Boa was probably correct in suggesting that so long as cochineal was the colouring agent they would have trouble, and the problem was to get a suitable substitute.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, March 9

THE WEAKNESS in the American dollar, to which we referred last week, came to a head over the week-end with a break-down declared, with the temporary withdrawal of that currency from the international exchange markets and the suspension of the gold standard as a monetary basis. In consequence of these not entirely unexpected developments, all markets affected directly or indirectly by the exchange value of the dollar are more or less nominal, so far as important business is concerned. In fact, international trading generally is being considerably interrupted. These abnormal conditions are not likely to improve until the new exchange value of the dollar is made known and the suspension cancelled, which may not take place till Monday next. While the general opinion regards a departure from the gold standard in America as unlikely, and that a solution will be found by a change to a gold bullion basis, it is considered possible that, in relation to the £, the dollar may be quoted at the opening at not much less than four. Movements that may take place in other foreign currencies as a result of any international devaluation of the dollar will be of extreme interest, and it is this contingency which has unsettled and generally interrupted world trade. Equally important, if not more so, than the new dollar rate is the question of whether the franc, mark and other Continental moneys may cheapen to at least some degree against the £. Under such conditions both buyers and sellers are marking time. Spot business in pharmaceutical chemicals has been moving along steadily, with the orders mostly for small quantities. Crude iodine is now based on a sterling sales price. So far iodides are unchanged, but this new development may enable the makers of the salts to further reduce their prices. Synthetic thymol is quoted cheaper. There is no alteration to report in quinine salts. Makers' quoted price for cream of tartar is reduced. The crude drugs markets have been badly disorganised and beyond unimportant spot transactions there has been no business, with many forward markets entirely nominal. Japanese camphor advanced for shipment on the dearer yen, but quickly fell back when the rate weakened. Menthol is steady on paper, but there is nothing doing forward. Next week's drug auction should be of interest. The essential oils markets have done a little spot business, but shipment is neglected and unsettled. With dearer silver, anise (star) is quoted fractionally dearer forward. Japanese peppermint is fully steady as quoted, but very little interest is being shown. Fixed oils have been quiet but are fairly steady.

A drug auction will be held next Thursday, March 16.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	March 9	Value of the £
Amsterdam ...	Fl. to £	12·107	8·59	14/2½
Berlin ...	Mks. to £	20·43	14½	14/3½
Brussels ...	Bel'ga to £	35	24·70½	14/1½
Copenhagen ...	Kr. to £	18·159	22½	24/8½
Lisbon ...	Esc. to £	110	110	20/-
Madrid ...	Ptas. to £	25·22½	41½	32/7½
Milan ...	Lire to £	92·46	67½	14/8
Montreal ...	Dol. to £	4·86½	4·13	16/11½
New York ...	Dol. to £	4·86½	suspended	
Oslo ...	Kr. to £	18·159	19½	21/5½
Paris ...	Fr. to £	124·21	87½	14/1½
Prague ...	Kr. to £	164·25	117	14/2½
Stockholm ...	Kr. to £	18·159	18½	20/9½
Warsaw ...	Zloty to £	43·38	31	14/5
Zurich ...	Fr. to £	25·2215	18	14/3

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

SPOT business has been moving on the usual steady but limited scale, and values are mostly unchanged. Cream of tartar has been reduced by makers. Synthetic thymol is cheaper. Mercurials and bismuth salts are unchanged.

ACETANILID.—The market remains quiet, tone steady: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL.—Business is moving in small quantities: 56 lb., 7s.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb. in 7-lb. tins.

AMIDOPYRIN.—Spot values are somewhat irregular and the market is dull: crystals, five cwt., 17s. 9d.; two cwt., 18s.; less than two cwt., up to 19s. per lb., with powder 2½d. per lb. extra.

AMMONIUM BENZOATE.—Some occasional small business is being done at about 3s. 4d. to 3s. 6d. per lb., as to quantity.

ASPIRIN.—Makers' and dealers' prices are steady and business is sustained on a good scale: home trade, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works.

BARBITONE.—Dealers' prices for spot are about steady; business is rather quiet: spot, one cwt., 11s.; 56 lb., 11s. 4d.; 14 lb., 11s. 9d.; small parcels, up to 12s. 3d. per lb.

BENZONAPHTHOL.—The market is now quoted at about 3s. 3d. to 3s. 4½d. per lb., as to quantity.

BENZOIC ACID (B.P.).—A very fair inquiry with the market well maintained: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 1d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers report that their prices for these salts continue unchanged.

BROMIDES.—A steady inquiry for rather limited quantities is being received; market quoted unchanged: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 2s. 5d. per lb.; potassium B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium B.P. not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb. net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE is unchanged on quotation, with not much important business moving: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Business is still restricted, with the market keenly competitive: pure alkaloid, 5s. 6d. to 6s. 3d. per lb.; citrate, 4s. 3d. to 4s. 10d. per lb., as to quantity.

CALCIUM LACTATE.—A little more inquiry, with the market keeping about steady: spot, one cwt., 1s. 1½d.; 56 lb., 1s. 2d.; 28 lb., 1s. 3d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices for home trade are as follows: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 4d.; one cwt., 3s. 5d.; 56 lb., 3s. 6d.; 28 lb., 3s. 7d.; 14 lb., 3s. 8d. per lb.; 28-lb. jars one penny per lb. extra.

CHLOROFORM.—Makers' prices for home trade are as follows: in drums, 2s. 3d. to 2s. 6d.; winchesters, 2s. 3½d. to 2s. 6½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11d. per lb., for ten cwt. down to 56-lb. lots; carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Home makers' quoted price is unchanged at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are offering spot at very keen prices.

COCAINE.—Makers' prices for home trade are steady: hydrochloride, 25 oz., 20s. 11d.; 16 oz., 21s. 7d. and less, 22s. 3d. per oz.; pure, 25 oz. 22s. 1d.; 16 oz., 23s. 8d.; less than 16 oz., 24s. 4d. per oz.; 1-oz. tins, 2½d. per oz. extra. Export prices vary as to destination.

CREAM OF TARTAR.—Makers' quoted prices for home trade for 99 to 100 per cent. material shows a further reduction, being now down to 82s. per cwt., less 2½ per cent. discount, nominal and without engagement. Dealers are quoting at about the same figure.

CREOSOTE (B.P.).—This market has been dull. Spot is quoted at about 1s. 10½d. for quantities in 25-kilo. demi-johns, with smaller parcels up to 2s. 4d. per lb.

GUAIACOL CARBONATE.—Business has been slow, with spot values unsteady: quoted from 8s. 3d. to 9s. per lb., as to quantity.

HEXAMINE.—A fair inquiry is being received and prices are being maintained: free-running crystals, spot, ten cwt., 2s. 2½d.; two cwt., 2s. 3d.; one cwt., 2s. 4½d.; smaller quantities, up to 2s. 6d. per lb.

HYDROQUINONE.—This market keeps steady, and there is rather more inquiry about: ten cwt., 5s. 7½d.; five cwt., 5s. 8½d.; two cwt., 5s. 9d.; one cwt., 5s. 9½d.; 56 lb., 5s. 10½d.; 28 lb., 6s. 0½d.; 14 lb., 6s. 2½d.; 7 lb., 6s. 4½d. per lb., carriage paid.

IODIDES.—Makers' prices for these salts are unchanged. Sale prices for iodine have now been fixed on a sterling basis, and this new development may enable the makers of the salts to further reduce their prices in the near future.

LACTIC ACID (B.P.).—Rather limited business is reported, with the market competitive: quantities in carboys, 1s. 5d. to 1s. 6d.; in winchesters, 1s. 7½d. to 1s. 9d. per lb., as to quantity.

MERCURIALS.—Makers' prices for these products are unchanged.

METHYL SALICYLATE (B.P.).—Business is sustained and the market is very steady: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; small quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' prices for spot goods are steady; business has been slower, forward is indefinite at the moment: two cwt., 19s. 4d.; one cwt., 19s. 10d.; 56 lb., 20s. 4d.; small parcels, 21s. per lb.

MILK SUGAR.—Continental material is quoted on spot at steady rates: one ton, 53s. 6d.; ten cwt., 54s. 6d.; two cwt., 56s. per cwt., in two-cwt. cases.

MOLYBDATES.—Makers' prices are as follows:—Molybdic acid, 28 lb., 5s. 3d.; 7 lb., 5s. 6d.; smaller quantities, 5s. 9d. per lb.; ammonium molybdate, 28 lb., 5s.; 7 lb., 5s. 3d.; smaller quantities, 5s. 6d. per lb. net, packages extra. Special prices for contracts and bulk quantities.

PARAFORMALDEHYDE.—A moderate business is being done, with quantities at keen prices: 100 per cent. powder, quantities in kegs, 1s. 2½d. to 1s. 2¾d.; smaller parcels up to 1s. 6d. per lb.

PHENACETIN.—The market is steady as quoted; business is on the small side: crystals or powder, ten cwt., 4s. 1½d., five cwt., 4s. 3d.; two cwt., 4s. 4½d.; 56 lb., 4s. 6d.; less than 56 lb., 4s. 9d. per lb., carriage paid on minimum cwt. lots. No falling clause on contracts over twelve months.

PHENAZONE.—Some spot sellers are offering at keen prices; market rather unsteady and by no means active: crystals, ten cwt., 9s. 7d.; five cwt., 9s. 10d.; two cwt., 10s.; and less, 11s. per lb.; with powder, 2½d. per lb. extra.

PHENOLPHTHALEIN.—This market is steady as quoted, but there is not much business about: two cwt., 4s. 7d.; one cwt., 4s. 8d.; 28 lb., 4s. 11d.; 14 lb., 5s. 2d.; 7 lb., 5s. 5d.; smaller parcels, up to 5s. 8d. per lb.

PHENYL ETHYL BARBITURIC.—The market is quiet and quoted prices are being shaded in some quarters: one cwt., 36s. 9d.; 56 lb., 38s.; 28 lb., 39s. 3d.; smaller quantities, 40s. 6d. per lb., in 2-lb. bottles, carriage paid; small lots in different packing at higher prices.

POTASSIUM PERMANGANATE (B.P.).—Dealers' prices are steady: business in small lots about average; quantities in two-cwt. drums, 8½d. to 8¾d.; druggists' parcels, 9d. to 10d. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—There is only a small inquiry on spot for this article: quoted from 5s. 9d. to 6s. 3d. per lb., as to quantity.

PYROGALLIC ACID.—Inquiry continues on a fair scale with quoted prices steady: 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb. in 7 lb. tins.

QUININE SULPHATE.—The Convention price remains at 2s. 5d. per oz., carriage paid on bulk quantities.

RESORCIN.—The limited quantities of foreign material are quoted at 5s. 6d. to 6s. 3d. per lb. English is offering at the following rates: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., 6s. per lb.

SACCHARIN.—The Convention price is unchanged: 550, 1 lb., 37s. 6d. per lb. duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Makers' scale of prices for home trade is very steady: business about average: one ton, 1s. 7d.; ten cwt., 1s. 7½d.; five cwt., 1s. 8d.; one cwt., 1s. 8½d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s. per lb.

SALOL.—Not much inquiry for this product: market is keen on quotation: spot, crystals, two cwt., 5s. 9d.; one cwt., 5s. 11d.; 56 lb., 6s.; smaller parcels, 6s. 2d. per lb.; powder, 2d. per lb. extra.

SODIUM BENZOATE (B.P.).—A fair business is being done: quantities from 1s. 8½d.; smaller parcels, up to 1s. 11d. per lb.

SODIUM DIETHYLBARBITURATE.—A limited sale is reported with the market steady: spot, one cwt., 12s. 9d.; 56 lb., 13s.; 28 lb., 13s. 3d.; 14 lb., 13s. 6d.; 7 lb., 13s. 9d.; smaller parcels, up to 14s. per lb.

SODIUM SALICYLATE (B.P.).—Business is average with makers' and dealers' prices steady: home trade, powder, two tons, 2s.; one ton, 2s. 0½d.; ten cwt., 2s. 1d.; five cwt., 2s. 2d.; one cwt., 2s. 3d.; 28 lb., 2s. 4d.; 14 lb., 2s. 6d.; 7 lb., 2s. 7d.; 1 lb., 2s. 8d. per lb., with crystals one penny per lb. extra.

SULPHONAL.—The market is dull and tends to become unsteady owing to the indefinite forward position: crystals, two cwt., 15s. 4d.; one cwt., 15s. 10d.; 56 lb., 16s.; smaller parcels, up to 17s. per lb., with powder, 2d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—Home makers' quoted price remains at 10½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are offering at competitive prices.

THEOBROMINE.—Business is of small account on a keen market: pure alkaloid, 5s. to 5s. 6d. per lb.; sodium salicylate, 5s. 2d. to 5s. 6d. per lb., as to quantity.

THYMOL.—This market has been quiet and is easier for synthetic, while the ex ajowan seed keeps steady: synthetic, fine white, one cwt., 5s. 3d.; 56 lb., 5s. 4½d.; 28 lb., 5s. 6d.; 14 lb., 5s. 9d. per lb.; ex ajowan seed, one cwt., 7s. 3d.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

VANILLIN.—A little more business is reported and, as quoted, the market is fairly steady: 100 per cent., one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.

Crude Drugs, etc.

AGAR AGAR.—The spot market is steady but still rather dull. Shipment tends to be better at slightly dearer figures: spot, Kobe, No. 1, 2s. 3d.; No. 2, 2s. 1d.; Yokohama No. 1, 2s. 1d. per lb.; shipment, Kobe No. 1, 1s. 6½d.; No. 2, 1s. 5½d.; Yokohama No. 1, 1s. 5½d. per lb., c.i.f.

ANTIMONY.—Market is quoted unchanged. Chinese crude, spot, nominal; shipment, £17, c.i.f. Chinese oxide, spot, £28; shipment, £21 10s., c.i.f.

BALSAMS.—Some small lots of *Tolu* are steadily held on spot for 3s. 7d. to 3s. 8d. per lb. Canada is quoted at about 3s. 1d. to 3s. 2d. per lb., as to quantity.

BELLADONNA.—The spot market is unchanged with any good test root available at about 67s. 6d. per cwt. Leaves are quoted at 65s. per cwt., spot.

BISMUTH METAL.—We are advised that the sterling price remains at 4s. 6d. per lb., with no dollar price at the moment.

BUCHU.—The spot market is steady and supported by indications for firmer shipment terms. At the moment it is difficult to define the figure acceptable to shippers, but it seems certain their recent rates have been withdrawn. Spot, fair to good green rounds, 1s. to 1s. 3d.; yellowish, 10d. to 11d.; ovals, 8½d. to 9d. per lb., as to colour.

CAMPHOR.—Actual business is unimportant. Spot is quoted unchanged. Shipment advanced on the dearer yen with tablets up to 2s. 3d., but by Wednesday noon had fallen back with the yen depreciated: spot, slabs, 2s. 3d.; flowers, 2s. 3d.; tablets, 2s. 8d. per lb.; shipment, slabs, 1s. 9½d.; flowers, 1s. 10d.; tablets, 2s. 1d. per lb., c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz., and ¼ oz. 3s. 6d. per lb.; special prices for contracts for quantities.

CASCARA SAGRADA.—The spot market is very steady with 1932 peel now well up to 62s. 6d.; 1931 peel, 67s. 6d.; 1924 peel in small supply at 75s. per cwt., spot. Shipment is nominal at 52s. 6d. per cwt., c.i.f.

CHAMOMILES.—A fair inquiry continues to be received with former prices steadily maintained on spot.

CLOVES.—Business has been rather quiet, but the market keeps steady. Zanzibar, spot, 6½d.; shipment, March-April, 5¼d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended February 25 were 300 and the deliveries 78, leaving a stock of 1,389. From January 1 to date, landings of Zanzibar have been 688 and the deliveries 473. Landings of Madagascar for the week ended February 25 were nil, and the deliveries nil, leaving a stock of 1,113. Landings of Madagascar this year to date have been nil and the deliveries 43.

COCOA BUTTER.—Prime English is quoted from 8½d. to 10d. per lb., as to quantity. Business has been limited.

COCONUT (DESICCATED).—The market is steadier this week with rather more inquiry. Spot, fine, 25s. 6d.; medium, 23s. 6d.; shipment, halves, March-April, 21s. 6d. per cwt., c.i.f. Closing firmer.

COD-LIVER-OIL.—There is little interest in this market at the moment with conditions unchanged. Fishing results to March 4 as follows: 30,200 tons of cod and 17,955 hectol. of oil, compared with 29,320 tons of cod and 18,199 hectol. of oil at the same time in 1932 and 24,635 tons of cod and 11,096 hectol. of oil in 1931. Finest Lofoten steam refined non-freezing medicinal oil, spot, 80s. to 82s. 6d. per barrel, c.i.f. Spot, about 100s. per barrel, ex store, duty paid. Some brands may be cheaper.

DAMIANA LEAVES.—Dealers are offering spot lots at about 1s. 1d. per lb.

ERGOT.—Business in this article is still poor. Spot, Spanish, 7½d.; Portuguese, 1s. 6d.; Russian, about 1s. per lb., all duty paid.

GELATIN.—The market is steady; business fair in limited quantities: spot, gold leaf, 2s. 2d.; silver leaf, 2s.; bronze leaf, 1s. 9d.; thin leaf, 1s. 8d. per lb., in cwt. lots.

GFENTIAN.—French is practically unobtainable. Some small lots of Spanish are firm on spot at 56s. to 57s. 6d. per cwt.

GINGER.—The market has remained dull with forward prices a point easier. West African, spot, 18s. 6d.; for arrival, 15s. 3d. per cwt., c.i.f. Jamaican, on spot, is quoted from 60s. to 100s. per cwt., as to quality.

GUM ACACIA.—This market has been neglected and is quoted unchanged: spot, Kordofan cleaned sorts, 36s. 3d.; natural, 34s. 9d.; bleached, 65s. to 70s. per cwt., shipment, Kordofan cleaned sorts, 31s. 9d.; natural, 30s. 9d. per cwt., c.i.f., and less for bulk quantities.

HENBANE.—Dealers are quoting small lots at about 40s. per cwt.

HONEY.—Business has been much quieter this week, with the various kinds and grades quoted about unchanged. Some new crop Jamaican is now afloat, to come in on consignment. It is reported that the main crop will be later than usual.

HYDRASTIS.—Some small spot business is being done, with prices in the region of 4s. 3d. to 4s. 4d. per lb.

IPECACUANHA.—The spot market for Matto Grosso is flat; quoted at about 4s. 9d. to 4s. 10d. per lb. Minas is available at about 4s. 3d. per lb.

MENTHOL.—The market dealing in this Japanese product has been negligible this week, both buyers and sellers marking time pending more settled conditions. K/S brands on spot, 16s. 3d. per lb. and slightly less for bulk quantities. Shipment for January-March is held at 12s. 10½d. per lb., c.i.f. On Thursday morning, although the market was quiet, the tone was very steady with Japan quoting slightly firmer.

MERCURY.—A steady inquiry is reported, with some American purchases recorded. Spanish-Italian, f.o.b. Continent, about £9 12s. 6d. per bottle. Spot has been done between £9 17s. 6d. and £10 7s. 6d. per bottle, as to quantity.

OPIMUM.—The market is reported rather easier on quotation this week, with bulk quantities at 1s. per unit, landed and duty paid. Smaller quantities from 1s. 1d. per unit.

PEPPER.—The market is much steadier this week and closes firm, with values showing a slight recovery from recent low levels. Lampong, spot, 5½d.; shipment, March-May, 4½d.; April-June, 4½d.; May-July, 4½d. per lb., c.i.f. Tellicherry, spot, 5½d.; shipment, March-April, 43s. per cwt., c.i.f. Aleppy, spot, 5½d.; shipment, March-April, 42s. per cwt., c.i.f. White Muntok, spot, 6½d.; shipment, March-May, 5½d.; April-June, 5½d.; May-July, 5½d. per lb., c.i.f.

PIMENTO.—Business has been rather poor this week. Spot, 2½d.; shipment, March-April, 21s. 6d. per cwt., c.i.f.

QUASSIA CHIPS.—Spot supplies are being quoted at about 25s. per cwt.

QUILLAIN BARK.—Dealers are offering crushed bark on spot at about 35s. per cwt.

RHUBARB.—A steady business has been moving, with the arrivals small; spot stocks are depleted. Shensi, 4s. 4d. to 4s. 6d. Canton is meeting with a fair demand and in limited supply, spot, about 2s. 8d. Flat high dried, 2s. 3d. to 2s. 4d., and common round, 1s. 2d. to 1s. 6d. per lb. The market is very steady.

RUBBER.—There has been rather more business done in this commodity and values show a slight appreciation. Standard ribbed smoked sheet, spot, 2½d.; March, 2½d.; April, 2½d.;

May, 2½d.; June, 2½d.; July-September, 2½d.; October-December, 2½d.; January-March, 2½d. per lb.

SAFFRON.—Dealers' prices are about steady; business about normal; spot, prime B.P., 61s. 3d.; extra B.P., 57s.; super B.P., 54s. per lb., and slightly less for bulk quantities.

SARSAPARILLA.—Only some small orders done, market quoted unchanged; spot, native mixed colours, 1s. to 1s. 1d.; grey Jamaican, 1s. 8d. to 1s. 9d. per lb., as to quantity.

SEEDS.—ANISE.—Spot, Spanish, 52s. 6d.; Bulgarian, 40s., duty paid. CANARY.—Quiet; spot, Mazagan, 12s. 6d. quoted; Tangier offered 11s. 3d.; Kenitra, 10s. 6d. LINSEED.—Mazagan sold at 15s. 3d. spot; Morocco, 14s. 9d. CORIANDER.—Morocco, 1929 crop, 15s. 9d.; wormy, 13s. 6d. to 14s. 6d.; sound, for shipment, 14s. 6d., c.i.f. CUMIN.—Malta, spot, 42s. 6d.; Morocco, 32s. 6d., duty paid. FENUGREEK.—Morocco, 12s. 6d. spot, and Tunisian, 15s. CARAWAY.—Dutch, 32s. 6d., duty paid; 27s. quoted f.o.b. Amsterdam. MUSTARD.—English, 22s. to 32s. per cwt., according to quality.

SENEGA.—The market is unsettled, with shipment nominal. Spot holders are now looking for not less than 2s. per lb. for limited quantities.

SENNA.—The market has been very quiet this week and is quoted nominally unchanged.

SHELLAC.—The tone of the market is steadier this week. Spot, standard TN orange, 5s.; fine orange, 60s. to 110s.; pure button, 65s. per cwt. For delivery, TN, March, 44s.; May, 45s. 6d.; August, 48s. per cwt. For arrival, TN, March-April, 43s. per cwt., c.i.f. Firmer at close.

SQUILL.—Some fair white is available at about 27s. 6d. and seconds at 21s. 6d. per cwt. in small lots.

TUBA ROOT.—Dealers are offering some good test powdered root at about 1s. 4d. per lb. in small parcels.

VALERIAN ROOT.—Spot supplies are offering at about 60s. per cwt. in limited quantities.

Essential Oils, etc.

THE general uncertain conditions prevail in this market and business this week has mostly been confined to unimportant spot orders. Shipment prices for products linked with the dollar are, of course, nominal. Japanese peppermint is steady, but business is negligible.

ALMOND.—Some small business being done on spot: English sweet oil, cwt. lots, 2s. 7d.; small parcels, up to 2s. 9d. per lb. Dealers offering genuine s.a.p. at about 7s. 3d. to 7s. 6d. per lb.

ANISE (STAR).—The spot market is steady and there is a little more inquiry; shipment tends to be firmer on account of silver and is quoted a fraction dearer: spot, "Red Ship," in leads, 1s. 10d.; in tins, 1s. 7½d.; in drums, 1s. 7d.; shipment, in leads, 1s. 7½d.; in tins, 1s. 6½d.; in drums, 1s. 6d. per lb., c.i.f.

BERGAMOT.—The shipment market is dull and quotations remain depressed in the region of 6s. per lb., c.i.f. Spot is freely offered at 6s. 3d. to 6s. 6d. per lb., as to quantity.

BOIS DE ROSE.—Some spot offers are at lower rates, but there is a better undertone; quoted from 4s. 1d. to 4s. 3d. per lb., as to quantity. Shipment is reported to be better, with most of the cheaper offers withdrawn.

CAJUPUT.—This market continues to attract very little inquiry. Spot is quoted from 2s. 3d. to 2s. 6d. per lb., as to quantity.

CANAGA.—The market is dull but steady as quoted at about 9s. per lb. The shipment market is tending firmer.

CARAWAY.—A fair business is being done at keen prices. Dutch is steady from 9s. 6d. to 10s. 6d. per lb. Continental is available from 7s. 6d. per lb. for a quantity.

CASSIA.—The shipment market is better at not less than 2s. 11d. per lb., c.i.f. Spot is steadier at 3s. 7d. per lb.

CEDARWOOD.—American on spot is quoted unchanged, with drums at 1s. 9d. and smaller lots about 1s. 10d. to 1s. 10½d. per lb. Shipment is nominal at the moment. Colonial, spot, 1s. 8½d. in drums, and 1s. 10d. per lb. in tins.

CINNAMON LEAF.—This market is steady, with business rather quiet. Spot, about 3s. 1d. to 3s. 2d. per lb., in tins; shipment, 2s. 3½d. per lb., c.i.f., in drums.

CITRONELLA.—Except for one or two nice orders and the usual small business the market is dull and tends rather easier forward, but spot is keeping fairly steady for small re-packed lots. Ceylon, spot, about 2s. 0½d. to 2s. 1d.; shipment, 1s. 9½d. per lb., c.i.f. Java, spot, is cheaper at 2s. 8d. to 2s. 8½d., with shipment at from 2s. 3d. per lb., c.i.f. Shipment prices are for fair quantities.

CLOVE.—Business is moderately good, with Madagascar on spot about steady at 3s. 6d. per lb. for small parcels; shipment in bulk quantities, about 2s. 6d. per lb., c.i.f. English is offering at about 4s. 3d. to 4s. 6d. per lb., as to quantity.

EUCALYPTUS.—Just a small business passing at keen prices. Australian, 70 to 75 per cent., 11½d. to 1s.; 80 to 85 per cent., 1s. 0½d. to 1s. 1d. per lb. for fair quantities; Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GERANIUM.—Inquiry on spot remains slow, while the shipment market for Bourbon is well maintained and reports indicate available supplies are limited. Small lots of genuine Bourbon on spot are worth 23s. 6d., with shipment, when offered, in the region of 21s. 9d., c.i.f. Algerian, on spot, 24s. 3d.; shipment, 22s. 9d. per lb., c.i.f.

GINGERGRASS.—A little more spot inquiry, with dealers quoting about 7s. 6d. to 7s. 8d. per lb., as to quantity.

JUNIPER BERRY.—This market is dull. Spot is being quoted at about 4s. per lb., and less for good quantities.

LAVERNER.—The best standard brands of French are quoted unchanged as mentioned below, but there are much cheaper offers: 50 to 52 per cent., 10s. 6d. to 10s. 9d.; 40 to 42 per cent., 9s. 3d. to 9s. 6d.; 38 to 40 per cent., 8s. 9d. to 9s.; 36 to 38 per cent., 8s. 3d. to 8s. 6d.; 30 to 32 per cent., 7s. 6d. to 7s. 9d. per lb., delivered, and slightly less for bulk quantities.

LEMON.—Some few orders are reported to have been booked for new crop Sicilian hand-pressed, which is quoted for shipment at about 3s. 10d. to 4s. 2d. per lb., c.i.f., as to brand and quantity. Spot is of small interest and quoted at about 4s. to 4s. 6d. per lb. Californian is nominally quoted at 48 cents in large drums and 49 cents in small drums, spot.

LEMONGRASS.—This market has recovered, with spot now fully at 2s. 2½d. to 2s. 3d., with some sellers holding for the higher figure. Shipment is steady at 2s. 1d. per lb. c.i.f.

LIME.—The market is quiet but steady, with limited quantities of genuine West Indian distilled at 38s. 6d. per lb., for small parcels.

MANDARIN.—Some few small orders are reported, with the market steady. Spot, 16s. per lb.; shipment, 13s. 3d. per lb., c.i.f.

ORANGE.—What business there is continues mostly to be directed to the French colonial material, which is quoted for shipment at about 2s. 6d. to 2s. 9d. per lb., c.i.f., as to quantity, the lower price for one or two-ton lots. Inquiry for Sicilian is poor, with prices for shipment of new crop sweet about 5s. 4d. to 5s. 8d. per lb., c.i.f. Spot is quoted at about 6s. per lb. Californian is nominally unchanged at 50 cents for single cases and 45 cents per lb. for two or more cases.

PALMAROSA.—There are some spot holders who are not sellers at less than 7s. 9d., while others quote 7s. 6d. to 7s. 8d. per lb., as to quantity.

PATCHOULI.—The market tends to be steadier, with spot prices at about 8s. 3d. per lb. Shipment is held at about 7s. 9d. per lb., c.i.f.

PEPPERMINT.—The market dealing with the Japanese product is more or less at a standstill. Spot is quoted at 5s. 9d. to 5s. 10½d. per lb. The shipment market on Wednesday was fully steady at 5s. per lb., c.i.f., for January-March shipment, but there was practically nothing doing. On Thursday morning spot holders were not quoting under 5s. 10½d.; shipment from Japan for January-March was firm at 5s. c.i.f. No business moving. American natural oil in drums is nominal for shipment; some orders at keen prices in dollars were placed last week-end.

PETITGRAIN.—Dealers are offering spot at about 4s. 9d. to 4s. 10d. per lb.; shipment is nominal.

ROSEMARY.—A fair business is being done and for a really good-quality Spanish the bottom prices are 1s. 8d. to 1s. 9d. per lb. for fair quantities; small lots, 1s. 10d. per lb.

SANDALWOOD.—The first-hand prices for genuine East Indian are steady at 24s. to 25s. per lb., as to number of cases.

SASSAFRAS.—Quoted prices on spot are unchanged, business slow. From 4s. to 4s. 6d. and up to 6s. per lb., as to quantity.

SPEARMINT.—Spot is mentioned at about 7s. 2d. to 7s. 4d. per lb., with no shipment figure available. Market is dull.

SPIKE.—There is a steady demand for this article and the market is very steady. Spot tends to move up from former rates to about 3s. 4d. to 3s. 5d. per lb., as to quantity, for Spanish.

WINTERGREEN.—Dealers are selling small lots on spot at about 7s. to 7s. 6d. per lb.

WORMSEED.—Spot supplies are mentioned at about 12s. 9d. to 13s. per lb., as to quantity. Market is dull.

Fixed Oils, etc.

THE demand for these products is still disappointing with most markets dull. Palm oils are steady but quiet. Cotton oils are easier. American turpentine is quoted cheaper and is neglected.—**ACID OILS.**—The market is a shade better this week; coconut and/or palm kernel, 20s. 3d.; groundnut, 19s. 6d.; soya, 15s. spot. **CASTOR.**—Business is limited; market quoted unchanged: pharmaceutical, 39s. 6d.; first pressings, 34s. 6d.; second pressings, 30s. 6d. (barrels); cases, £4 per ton extra ex mills, Hull, in not less than one ton lots; Bombay, 28s. 6d. (drums) c.i.f. **COCONUT.**—Business has been moderate with prices about unchanged: deodorised, 28s. 6d. (barrels), spot; Ceylon, 20s. (drums) c.i.f. **COTTON.**—Prices for all grades are quoted a point cheaper; business quieter: deodorised, 27s.; common edible, 25s.; soapmaking, 23s.; crude, 22s. (barrels), spot. **GROUNDNUT.**—Fairly steady with a limited business passing: deodorised, 35s. (barrels), spot; crude Oriental, 28s. (drums) c.i.f. **LINSEED (RAW, NAKED).**—Values for all positions are about level on the week. The market has been quiet: on spot, 17s.; March, 15s. 3d.; March-April, 15s. 6d.; May-August, 16s. 6d.; September-December, 17s. 1½d.; boiled oil, spot, 19s. 9d. **OLIVE.**—Business is only moderate but the market keeps steady: edible, in tins in cases, 70s. per case of ten gallons; in barrels, 5s. 3d.; B.P., 4s. 6d. per gallon, in 40 gallon barrels. **PALM.**—Business has been rather slower this week; quoted values are about level on balance: Lagos, 16s.; softs, 15s. 3d.; medium, 15s. 3d.; hards, 16s. 6d.; bleached, 19s. 3d., spot. **PALM KERNEL.**—Rather better this week on quotation; business slow: deodorised, 29s.; crude, 21s. 3d., spot. **RAPE.**—Business is restricted but the market is steady: refined, 32s. 6d.; crude, 31s. 3d., spot. **RESIN.**—The market is quoted at lower prices for most grades: B, 12s. 6d.; D, 13s.; F/G, 14s. 6d.; N, 20s.; W/G, 22s.; W/W, 24s. 3d. per cwt., ex wharf. **SOYA.**—Spot is a point dearer with shipment unchanged: deodorised, 27s.; crude, 23s. 6d., spot. **TURPENTINE, AMERICAN.**—The market has been flat and is quoted easier. Total London stocks, 14,297 barrels: on spot, 63s. 6d. **WOOD.**—Hankow in barrels is quoted unchanged at about 47s. 6d., spot.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1933, p. 329.

(From "The Trade Marks Journal," February 22, 1933.)

"WINCAPCINE"; for medicinal chemicals (3). By Bond Products, Ltd., King William Street House, Arthur Street, London, E.C.4. 538,298.

"VIVAX"; for medicine for internal use (3). By W. K. F. Morrice, 40 Courtfield Gardens, London, S.W.5. 538,357.

"PHANTOM"; for sanitary napkins or towels, and pads (11). By Kotex Co., Ltd., 1201 Northern Ontario Building, Toronto, Ontario, Canada. 535,330.

(From "The Trade Marks Journal," March 1, 1933.)

"ROTOX"; for a preparation for foot rot in sheep (2). By Waring Brothers, "Lodge Hollow," Hoddesdon, Hertfordshire. 534,135.

"MR. HAPPYMAN SAYS 'THIS IS FINE'"; with design of a man dancing, etc.; for foot preparations (3). By The National Chemical Holdings, Ltd., 46 St. James's Place, London, S.W.1. 536,598.

"VENIMENE"; for preparations for the treatment of insect bites (3). By W. N. Howlett, 18c Carlingford Road, Hampstead, N.W.3. 536,850.

"ANINE"; for liquids for combating the tobacco habit (3). By Menosine, Ltd., First Avenue House, High Holborn, London, W.C.1. 536,974.

"KEMPAC"; for medicinal chemicals (3). By Kempac, Ltd., Clarence Hall, Bradford Road, Batley. 537,758. (Associated.)

"GOPHAN"; for all goods (3). By H. G. Jacobson, 38 Fritschstrasse, Charlottenburg, Berlin. 537,967.

"SPERVOIDS"; for pessaries (3). By W. W. Phelps, 22 The Avenue, Chingford, E.4. 538,590.

"ELEPTZONE" on diamond shape; for medicinal chemicals (3). By A. Y. Taylor, Springhill, Heap, near Bury. 538,615.

"ASTROCALC"; for medicinal chemicals (3). By L. G. Stone, 5 Leonard Street, London, E.C.2. 538,781.

"POISE"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E.15. 538,837.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Pharmaceutical Society of Great Britain

SIR,—I understand there is a rumour current that Mrs. Freke does not intend to stand for re-election to the Council of the Society, when her term of service expires in May. This is not so; and as it may prejudice her chances of re-election if the rumour remains undenied, may I crave space in your journal to state that Mrs. Freke does intend to stand? I would also ask for the support of all members of the Society, whether men or women, for Mrs. Freke—not only because she is the only woman member of the Council, although I might be permitted to say that that in itself would be sufficient reason, but because of the splendid record of service on the Council and in the interests of pharmacy in general.

Yours truly,

CATHERINE S. ADAMS,
President, National Association of Women
Pharmacists.

A Dispensing Chemist's Dilemma

SIR,—Like others who have had trouble with liquor arsenicalis, B.P. 1932, we were interested in the note of Mr. W. A. Scott in THE CHEMIST AND DRUGGIST of March 4 (p. 245). In view of the numerous statements about the keeping qualities of this preparation, which have appeared in the trade papers since the new B.P. appeared, we think the following should prove of interest. On January 2, 1933, we made a 50-oz. batch of liq. arsenicalis, following the B.P. instructions carefully, using freshly made liq. potass. hydrox. On assay the finished liquor gave 1.009 per cent. As_2O_3 . The liquor was filled into six stoppered bottles (5, 6 and 10-oz. capacity), two of each size; half the bottles before filling were rinsed with aqua dest. and the other half rinsed with tap water. One 6-oz. stoppered bottle was half filled with the liquor. The bottles were placed in couples in different rooms throughout the building, the half-filled bottle being opened for a few minutes every other day. The stoppers were not fastened in any way. At the time of writing (March 4), they are all in excellent condition, bright and free from smell. It is rather early yet to say anything definite, but as the preparation has kept for two months, one must admit that the outlook is hopeful. We understand that this preparation is having official attention, so perhaps we may have an official announcement on the subject soon.

Yours truly,

JOHN THOMPSON
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LIVERPOOL.
A. E. WILLIAMSON,
Managing Director.

Photographic Film Prices

SIR,—I am interested in the correspondence appearing in your columns (C. & D., March 4, p. 245) regarding the alteration in the price of spools. As one of the oldest dealers in the photographic trade, and after going into the matter very thoroughly, I am convinced that it is an uneconomical proposition for the manufacturers to sell either a six- or eight-exposure spool at less than 1s. 2d. The complaint that an eight-exposure spool is not required seems to me uncalled for. There has always been an eight-exposure film for the vest pocket camera, and I have never had a complaint about it. Your correspondents seem to think very little of the fact that the two extra exposures mean very often two extra prints for the developing and printing department, and it is quite certain, in my opinion, that it is better to have 32 negatives for printing than 24. The extra cost to the amateur by the increase in price does not mean more than 1s. a year if an average of six spools is used. I am

quite sure that the manufacturers are sufficiently interested in the welfare of the photographic trade to see that no steps are taken unless they are convinced that the photographic business, both theirs and ours, would not be prejudiced. From my own personal experience, I should say that the sales of roll film have never exceeded the sales of 1929, when the price of six-exposure spool was 1s. 2d.—Yours sincerely,

London, W.1.

WALLACE HEATON.

SIR,—Thanks to the numerous letters which have reached us from photographic dealers, we feel confident that the general feeling of the trade is against the advanced prices of films. Consider 10,000,000 films sold to the public at 2d. extra—approximately £84,000 will be paid extra for this hobby this year than in 1932—of which mighty sum the manufacturers take a mere 70 per cent. for themselves—roughly £50,000. Surely this sum is far more than the advance in price of raw material. Is it fair to the public, whose wages are reduced, and who are expecting similar reductions in prices all round? As regards "Photographic Dealer's" letter in your issue of March 4, we consider his ideas and brain waves are all wrong. Manufacturers, while replying to our complaints, have stated that communications should be addressed to the P.D.A. and the P.D.A. National Council are going to discuss the whole position. It is never too late to alter arrangements, whether the sun shines or not. Finally, we wish your correspondent would come out into the open and not hide under a cloak of anonymity.—Yours faithfully,

ARTHUR LARDER,
Hon. Sec., Lowestoft and
District Branch of the P.D.A.

SIR,—"Photographic Dealer" (C. & D., March 4, p. 254) is begging the question, and the tone and the substance of his letter make me suspect that it is inspired by a manufacturer. My letter in the C. & D., February 4 (p. 134), gave three reasons for reducing the number of exposures. I have since spoken to many dealers, and all have agreed that raising the price is a mistake. If money were circulating freely, an increase in price would mean a corresponding increase in turnover, but I fear that this year the law of diminishing returns will operate, and consequently the whole trade will suffer. There are thousands of automatic machines owned by dealers (one firm claims to have sold 1,500 last year). The established film manufacturers will have only themselves to blame if they let in some "outside" firm to cater for these machines by making six-exposure film for 1s., which would in addition be more suitable for the hundreds of thousands of cameras which will not accommodate an eight-exposure comfortably. "Photographic Dealer's" final remark is uncalled for. No one imagines, or has claimed, that the Photographic Dealers' Association controls the manufacturers, but surely if an overwhelming majority of the members of the P.D.A. thinks that the alteration is not in the best interests of the trade, the opinion of the P.D.A. should be listened to with some respect. The manufacturing season is so far advanced that nothing can be done now, but I venture to prophesy that, long before next autumn, the manufacturers will be regretting that they did not think a little bit harder last autumn. I hope I am wrong.—Yours truly,

C. B. Y. (7/3).

SIR,—I am glad to see that Mr. Arthur Larder (C. & D., February 25, p. 216) has written about the increase in price of the 16 and 20 sizes of films. Twopence is not a large sum, but when added to an article priced at 1s. it is just that little extra which may decide many camera users that photography is more expensive than they thought; consequently they will lose interest and give it

up. It is a commonplace saying that something which costs nothing is not valued, and in this case persons who have acquired a coupon camera are inclined to look on the price of films, the cost of processing and extra prints as an expense they had not expected in conjunction with a gift scheme. Most of these people only use their cameras during the summer months. Last year there were many who grumbled at the extra cost of D. and P. for the eight-exposure spool, which increased from rs. 6d. to rs. 10d., in spite of the fact that this included two extra exposures and prints. In these days people are looking more at the actual cash outlay than at the value received. If the eight-exposure spool has proved unprofitable to the manufacturers, as they say, it would have been far better to have reverted to the original six exposures and to have kept the price at rs., since, as Mr. Larder suggests, the public would have accepted this change more readily than an increase price.

Yours faithfully,

EIGHT TO SIX (4/3).

Joseph Priestley

SIR,—The religious ministry has not, as a rule, produced great scientists, and perhaps the most notable of the few pastors who have so developed was Joseph Priestley, whose bicentenary is to be celebrated on March 13 in Leeds. Actually Priestley was born a few miles from this Northern industrial city. His salary at the Unitarian church at which he began his religious duties was £30 per annum, but his studies in science and philosophy gradually made his name well known, and in 1761 he was awarded the chair of languages at Warrington Academy. Still pursuing his scientific studies, his fame became such that he was offered, and accepted, the post of librarian to Lord Shelburne in Wiltshire. . . . [Further details of his life will be found in the article on p. 256.—EDITOR.] It is upon the invention of the pneumatic trough and, to a greater extent, upon the discovery of oxygen, that his fame chiefly rests. Priestley resided in Leeds near a brewery, and it was this that first led him to experiment upon "fixed air" (carbon dioxide), an adequate supply of which was yielded by the fermenting liquor. In order to collect this, and other gases, Priestley devised the method of the pneumatic trough, still employed to-day. Further, the idea of using mercury in place of water enabled him to collect and study gases which were soluble in water, such as ammonia and sulphur dioxide. Priestley was an ardent phlogistonist, and it was a queer turn of fate that eventually his discovery of oxygen should have exploded Stahl's theory in the hands of the French chemist Lavoisier. . . . It was not until Lavoisier showed that the weight of mercury calx was greater than the mercury produced from it, and that the dephlogisticated air was a "part" of mercury calx, that the phlogiston theory was overthrown; still, all credit must be given to Priestley for his discovery of so important a gas. In order to commemorate the bicentenary of Priestley's birth, celebrations are to take place at the church at Mill Hill, Leeds, where he was once pastor. They are to take the form of a special service and an exhibition of relics, many of which were recovered from the ashes of Priestley's Birmingham meeting house which was fired by the mob. Leeds has already recognised Priestley's fame, for a statue was presented about thirty years ago by a former Lord Mayor, and stands in City Square. Another statue is said to exist in a garden in Roundhay. His fame preceded him to the United States, and a special medal was struck to commemorate his arrival there; a copy of this lies in Leeds City Museum.—Yours, etc.,

Paddock, Huddersfield.

E. A. LUM.

Gift Schemes

SIR,—The subject of gift schemes, touched upon by your correspondents (*C. & D.*, March 4, p. 245) is one which should engage the serious attention of the wholesale and retail trade alike. I am still unconvinced, despite the attitude of many firms, that such methods of business have any lasting result. I have noted carefully the comments made by customers when free gifts have been added to lines which they have made a habit of

purchasing. The impression produced in some minds is that the line has suffered some diminution in quality to permit of something being given with it. When, in justice to the makers, I deny any such possibility, the opinion is expressed that there must be a big profit to permit of free gifts. I believe that goods pushed by such means lose caste. I also believe that nowadays customers are not easily persuaded that they receive "something for nothing." It would be a good thing if all selling methods which introduce free gift or coupon schemes were stopped.—Yours faithfully,

RURAL CHEMIST (6/3).

SIR,—The pressure of manufacturers' advertising is too great to allow of retailers boycotting gift schemes entirely. For some years, however, I have refused to participate in all but the most widely advertised "something for nothing" stunts, and have informed the various firms' travellers of my objections in no uncertain terms. I may have lost a little business, though I have been surprised at the fewness of the inquiries for advertised "gifts"; at any rate, the public have never had the opportunity of mistaking my pharmacy for a cheap-jack store. I think that the general attitude of chemists to gift and coupon schemes is one of hostility. We might feelingly persuade manufacturers of our opinion by (1) writing to coupon firms, and letting them know of our disapproval of their tactics; and (2) by dealing as far as possible only with houses that do not descend to such unsatisfactory methods of marketing their goods.

Yours sincerely,

WILL U. DOIT (7/3).

A Few Suggestions

SIR,—Some pharmacists cannot afford to engage qualified men; others will not do so. In the former case, many of the pharmacists have a large turnover and yet the net profits are not too rosy—why? Let us consider what poor profits most patents show. How many manufacturers treat the chemist properly? They put endless money into newspaper advertisements, and duplicate our stocks. I suggest that a list be sent to every shop showing exactly what profit goods yield. All members of the staff should be made to peruse it, and should not recommend lines which are not suitably profitable. The list ought to be sent out by the N.P.U. giving all the patents and their profits, say, on £3 direct, also through wholesaler. I consider that every line should show 33½ per cent. profit, bought in any quantity. Furthermore, I suggest no window shows for any goods which did not show 33½ per cent., also no shows inside shops. Efforts should be made to make these people "toe the line," likewise suppliers to hairdressers, drug stores, grocers, etc. With regard to dispensing charges, could we not try to persuade the cutter and the chain stores that primarily everyone has his duty to his profession? Lastly, let us organise and form a powerful body like the doctors. It disgusts me to know how many chemists are too "superior" for anything like this. Also, we should vote for new blood to represent pharmacy from time to time.

I am, etc.,

RARA AVIS (6/3).

Points in N.H.I. Dispensing

SIR,—Your correspondent "Thousand a Month" (*C. & D.*, February 18, p. 187) again raises the question concerning this class of work. A friend of mine owning a business turning over £30 a week (this he can do comfortably single-handed—boy 15s. a week) could, owing to exceptional circumstances, secure the dispensing of about 250 N.H.I. scripts a week. To undertake this work, he believes, would necessitate the services of a qualified assistant at, say, £3 a week; to my mind it is questionable if it would be a paying proposition. I pointed out to my friend that it will of necessity increase his responsibility and cause him a certain amount of extra work. I have always maintained that N.H.I. work should leave a margin for the chemist after paying its due proportion of expenses, and I cannot see how 250 scripts a week are going to do this. It would be interesting to have particulars from others doing this class of work.—I am, etc.,

CHESHIRE (24/2).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. R. (24/38).—FLUKE IN SHEEP.—From investigations planned to determine accurately that stage of development at which the liver fluke becomes assailable by dosage with 1 c.c. of carbon tetrachloride, and also to ascertain whether larger doses would be effective against immature flukes, it was found that when the period of infestation was eight weeks or less, dosage with 1 c.c. of carbon tetrachloride destroyed few, if any, of the parasites. After nine weeks a proportion of the flukes had reached an assailable stage of development, and almost all were destroyed at the tenth and eleventh week. The assailable age of the liver fluke varied with the dose of carbon tetrachloride given. Dosage with 10 c.c. killed some of the parasites when only four weeks had elapsed, and almost all when that period was five to eight weeks. Except two groups of sheep dosed with 10 c.c. dosage was well tolerated. The animals used in the trials were Welsh mountain wether lambs, from eight to ten months old, of live weight from 50-70 lb. Dosage with 5 c.c. appears to destroy the fluke relatively soon after it gains entrance to the animal body, but until toxicity of the drug to ruminants is further investigated it is considered inadvisable to employ doses larger than 1 c.c., unless there be special circumstances, such as difficulty in collecting flocks, which prevent periodic dosage. From this it appears that there is little advantage to be gained by dosing more than once a month. Some flocks tolerate carbon tetrachloride poorly. It is believed that sheep on free range have a very high tolerance, while those fed on artificial foods or folded on certain special crops, perhaps also some ewes with lambs of some age at foot, have, comparatively, no tolerance at all. It is suggested that if it is proposed to treat a flock, particularly if the animals are not on free range, the tolerance should be tested by a preliminary administration of the drug to a few animals.

G. T. (27/1).—NON-INFLAMMABLE COMPOUND.—In the absence of information as to the purpose for which the liquid is to be used, the addition of carbon tetrachloride seems to be the most satisfactory method of making it non-inflammable. There is no method of making the liquid absolutely non-inflammable under all conditions; in contact with a hot surface the more volatile ingredients will tend to predominate in the vapour, which may therefore be ignited owing to the presence of too little carbon tetrachloride vapour. The same consideration applies to an emulsion. If the inflammable liquid constitutes the continuous phase, no advantage is conferred by emulsification. If water be the continuous phase, it seems probable, theoretically, that the solvent powers of the liquid would be reduced. We have made a number of experiments on emulsions of the liquid using equal volumes of the ingredients you mention, namely, amyl acetate, ethyl acetate, benzene, methylacetone and cresylic acid. Some difficulty was experienced in securing a stable emulsion and various emulsifying agents were tried, including soap, sodium sulphuricinate and triethanolamine stearate. Sodium sulphuricinate was found to be the best, but the emulsion was readily ignited by contact with a flame and it was found necessary to include some carbon tetrachloride. A liquid containing not less than 40 per cent. of carbon tetrachloride and 12 per cent. of each of the other ingredients could be emulsified by vigorously shaking with an equal volume of a 5 per cent. aqueous solution of sodium sulphuricinate, yielding a white relatively stable emulsion which it is almost impossible to ignite. A smaller proportion of water or less of the emulsifying agent yields unstable emulsions. We assume that the presence of 2½ per cent. of the emulsifying agent would not be detrimental and also that the preparation is not intended for cleaning clothes, since two or three of the ingredients would have a solvent action in artificial silks. (See the article on "Solvents" in the *C. & D.*, July 30, 1932, p. 117.)

Legal Queries

L. J. S. (6/1).—The inclusion of the words "nerve tonic" in the label enclosed with your letter render the article liable to medicine-stamp duty.

Middlesex (6/12) occupies a house and shop, at an annual rent of £90, under a lease which will expire shortly. The premises are to be offered for sale by auction. Can he be compelled to vacate the premises, and, if not, by what amount can the present rent be increased at the end of the lease? [As the premises are outside the London area the Rent Restrictions Acts do not apply to them if, as is presumably the case, the rent in August, 1914, was in excess of £78 a year. In that event, "Middlesex" has no protection from eviction or an increase of rent at the end of the lease, although he may, in certain circumstances, have a claim for compensation for loss of goodwill or for a new lease under the Landlord and Tenant Act, 1927. He should consult a solicitor.]

Jim Crow (25/1) has had an assistant in his employ for the past eleven years. The assistant has just returned to work after an absence of five weeks on account of an operation for appendicitis. What are "Jim Crow's" legal obligations as regards wages in respect of the period during which the assistant was laid up? [In the absence of a special agreement to the contrary, an employer is bound to pay the wages of an assistant while he is absent from work on account of illness, until the engagement has been terminated by notice in the ordinary way. Most employers, we believe, pay wages to an assistant who is ill, for a period varying with the length of service and other circumstances. Some employers deduct from the wages the amount that the assistant receives as benefit under the National Insurance Act; but there is no legal justification for so doing.]

Quinine (11/10) is the tenant of business premises under a sub-lease which expires in May 1936. The business was previously carried on by the original lessee, who is trying to buy the premises from the lessor. Should the lessor sell the property to the lessee or to anyone else would "Quinine" have a claim for compensation? [This is essentially a case where a solicitor should be consulted, seeing that much depends upon the circumstances and a right to compensation may be lost by failure to observe certain formalities. It would seem, however, from the facts disclosed, that "Quinine" may have a claim for compensation for loss of goodwill unless a fresh lease is granted to him at the end of his present term. His claim will have to be made against the original lessee or any other person who may at the time have acquired his interest in the original lease.]

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," March 15, 1883

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Glycerine, Honey and Lemon ..	2/6 ..
Glycerine and Paregoric	2/6 ..
Iodized Catarrh	3/0 ..
Menthol	2/6 ..
Menthol and Eucalyptus	2/6 ..
Pine Oil, Menthol and Eucalyptus ..	2/6 ..
Pynoline (Menthol, Cajuput, Creosote and Terebene)	2/6 ..

Packed Gum Pastilles

2 oz. tins, 5/6 per doz. 4 oz. tins, 10/0 per doz.

Gelabase Pastilles

In 4 lb. Free Tins.

Assorted Fruits	1/8 lb.
Black Currant and Glycerine ..	1/8 ..
Catarrh	1/8 ..
Cherry, Chest and Lung	1/8 ..
Compound Glycerine of Thymol ..	1/8 ..
Glycerine, Honey and Lemon ..	1/8 ..
Lemon Squash Cubes	1/8 ..
Licorice and Black Currant	1/8 ..
Lime Juice and Sulphur	1/8 ..
Phosph. Orange Tonic	1/8 ..
Vitamin Malt	1/8 ..

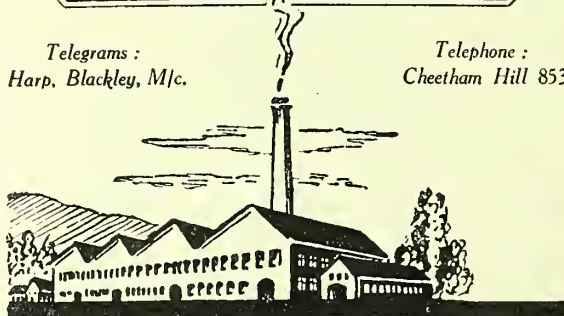
2 oz. tins, 4/6 per doz. 4 oz. tins, 8/0 per doz.

**Carlton Works, Asylum Rd.
LONDON, S.E.15****May we quote you for—
GLAUBER SALTS B.P.**

Pea Crystal and Feathery

EPSOM SALTS B.P.

Needle Crystals, Medium, Exsiccated

All grades conform to the new 1932 B.P. Standard
Special Crystals matched and any degree of exsiccation
to order. Packed for Home and Export.**LIQUOR FERRI PERCHLOR FORT. B.P.****HARRIS, HART & Co. Ltd.**MOSS HOUSE CHEMICAL WORKS, BLACKLEY,
MANCHESTER.Telegrams :
Harp, Blackley, M/c.Telephone :
Cheetham Hill 853**BLACKWELL
HAYES & CO. LTD.**

for 50 years

*Specialists in***FLAVOURS****FRUIT ESSENCES AND
HARMLESS COLOURS***Bulk or packed**All products guaranteed to conform
to the Food and Drugs Acts***MOOR ST. & ALBERT ST.
BIRMINGHAM**

It appears that many retailers are still unfamiliar with the current prices for Collosol Brand Halibut Liver Oil. In November last a 40 per cent. reduction in prices was announced as follows :

COLLOSOL BRAND HALIBUT LIVER OIL

Vials (and pipette)	5 cc ...	...	...	2/-
" " "	30 cc ...	...	...	9/-
Botts (and pipette)	120 cc ...	...	...	29/-
" " "	100 cc ...	...	...	24/-
Capsules (3 minim)	25 ...	...	...	2/6
"	100 ...	...	...	8/6
"	500 ...	...	...	33/6

HALIMALT

Also available at Special Bonus Terms

1 lb. 2/6 2 lb. 4/6 7 lb. 12/6

THE CROOKES LABORATORIES

British Colloids Limited.
Telephone : Willesden 6313 (3 lines)

Park Royal, London, N.W.10
Telegrams : Collosols Harles, London

BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
FINEST REMEDY FOR CATARRH AND
COLD IN THE HEAD.

Richard Dickeson & Co. (Incorporated with Reynolds, Sons & Co., Ltd.)
57-59 CHARTERHOUSE STREET, LONDON, E.C.1

NIGROIDS for the Throat and Voice

Registered Trade Mark.

Sold in tins 4½d. and 1/6 each.

WHOLESALE TERMS ON APPLICATION

Sole Makers : **FERRIS & CO. LIMITED, BRISTOL**

for METHYLATED SPIRITS

PLEASE ASK FOR OUR PRICE LIST
& PAMPHLET ON METHYLATED
SPIRITS, ETC.. ALSO FOR OUR
NEW BOOKLET "THE NEW WAY
TO REMOVE CARBON"

The Methylating Co., Ltd.
Kinnaird House
Pall Mall East, London, S.W.1

Phone : Whitehall 6964 Wires : "Methcolim, Phone,
(2 lines). London."

LIQUID PARAFFIN

*High Gravity and Viscosity, Non-Freezing,
Tasteless and Odourless.*

Also:—

PETROLEUM JELLY
White & Yellow

CASTOR OIL

COLZA OIL

COD LIVER OIL

Medicinal & Veterinary

LINSEED OIL

OLIVE OIL

Cream, Edible &
Pharmaceutical

ROSIN

TURPENTINE

WHITE OIL
Technical

LUBRICATING OILS

B.P. 1932.

*All Qualities Guaranteed
to Comply with Revised
Specifications.*

*Enquiries Invited and Samples
on Request.*

JAMES ARNOTT & SONS
LIMITED

Arnoco House, Quayside
NEWCASTLE-ON-TYNE



THE SAFE SOLID FUEL

Light it with a match!

DISPLAY AND YOU WILL SELL

APPLY FOR SHOWCARDS AND LEAFLETS

10 Bars 6d.
20 " 1/
50 " 2/3
100 " 4/-

STOCK GENUINE "META"
APPLIANCES

Sole Distributors:

ELMESAN (LONDON) LTD.,
66 Victoria St., London, S.W.1

See our Exhibit at the "Ideal Home
Exhibition," 370 Grand Hall Gallery,
Olympia



K-D AIR DRIER? Write
for details

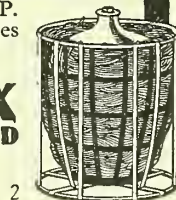
DISTILLED WATER in perfect condition

from our own stills. Supplies sent daily
to Chemists in all parts. Immediate dis-
patch. We solicit your enquiries for dry-
salteries generally. Obtain your supplies of
Olive Oil, Camphorated Oil B.P.
and Cotton Oil B.P.C. Grades
from our large stocks.

FRANCIS F. FOX
AND COMPANY LIMITED

BRISTOL & BIRMINGHAM

Established over 100 years



"Multum in Parvo."

"VAPOFORM" Disinfectant

Regd.

For disinfection of
Rooms,
Confined Spaces, &c.

for HOME
and HOSPITAL

Has no injurious effects
whatever on Furniture,
Utensils, &c.

Small size, capable of disinfecting
1000 to 2000 cubic ft., 8/6 per doz.

Large size, capable of disinfecting
3000 to 6000 cubic ft., 13/- per doz.

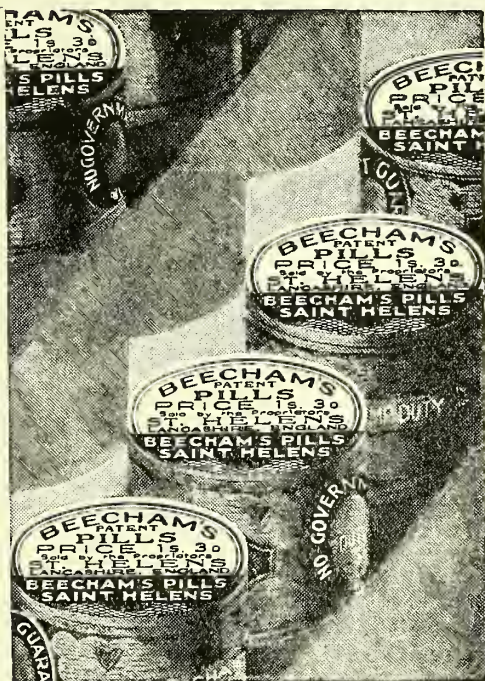
Sole Proprietors—

HARKNESS, BEAUMONT & CO., LTD.
Wholesale Chemists, EDINBURGH.

Two lines that sell every day—every year

£2 parcel for either Beecham's Pills or Beecham's Powders or Assorted Beecham's Pills and Beecham's Powders

38% PROFIT



BEECHAM'S PILLS

The family Remedy for the last 80 years for SICK HEADACHE, BILIOUSNESS, CONSTIPATION and INDIGESTION. The best daily seller in the Drug Trade.

An intensive advertising campaign is continually appearing in all leading National and Provincial papers. This is supplemented by House-to-House distributions throughout the country.

There is no fear of Bad Stock as all replacements are made free of charge.



BEECHAM'S POWDERS

Introduced a few years ago, have the confidence of the public for INFLUENZA, COLDS, CHILLS, HEADACHES, RHEUMATISM, LUMBAGO, NERVE PAINS, etc. Made from the finest ingredients obtainable. Chemists will be well advised to keep adequate stocks of Beecham's Powders to enable them to meet the big and increasing demand.

TERMS TO THE TRADE

Beecham's Pills	...	1/3 Size	11/9 Per Doz.	Beecham's Pdrs.	...	1/3 Size	11/9 Per Doz.
"	"	3/-	28/-	"	" (Tablet Form)	1/3	11/9
"	"	5/-	54/-	"	"	5/-	54/-
		Beecham's Cough Pills	...	1/3 Size	11/9 Per Doz.		
		"	...	3/-	28/-		

Less 2½% Discount and 5% Window Display Allowance. Minimum Order £2 - 0 - 0 value. Monthly Account. All goods packed free and sent carriage paid. Stock more—show more and sell more Beecham's Pills and Beecham's Powders.

BEECHAM'S PILLS LTD.

ST. HELENS

LANCASHIRE

Telephone : 2241 St. Helens

Telegrams : Beecham St. Helens



Its use does not lead to habit

COMPOSED OF EXTRACT OF THE INTESTINAL GLANDS, BILIARY EXTRACT,
AGAR-AGAR, AND LACTIC FERMENTS.

DISPLAY TAXOL on your Counter

FROM ALL WHOLESALERS

CONTINENTAL LABORATORIES, Ltd., 30 Marsham Street, London, S.W.1
VICTORIA 2041 ; AND TELEGRAPHIC ADDRESS : " TAXOLABS. SOWEST, LONDON "

RIVISTA ITALIANA DELLE ESSENZE E PROFUMI

(Affiliated to the Technical Press Association.)

FIFTEENTH YEAR OF PUBLICATION

Official Organ of the Group of Producers of Aromatic
Substances of the National Fascist Federation of Chemical
and Allied Industries.

Director : - - - - Dr. EMMA FENAROLI

Editorial Offices : - VIA S. VINCENZO N.38 MILAN

Telephone : 31 216-C.P.850.

Producers of Aromatic Substances for Perfumery—Manu-
facturers of Articles used in the Perfumery Trade—This is
the Periodical in which to Advertise effectively in Italy.

MAKE USE OF ITS ADVANTAGES

SAMPLE COPY AND TARIFF ON REQUEST.

OUR SIDE AND YOURS THE 'ASPRO' SALES POLICY



Two factors operate to produce for you the maximum 'ASPRO' sales. One is the 'ASPRO' advertising to the public which is carried on by the largest newspaper campaign of its kind in the world, backed up by periodic distribution of broadsheets and booklets into almost every home in the country. The other is the vast window display service available for all chemists. When you show an 'ASPRO' window display you definitely connect up with this huge advertising campaign. You obtain direct benefit in greater 'ASPRO' sales and additional benefit from the sale of other goods which you can sell to customers who come into your shop for 'ASPRO'. It definitely pays to show 'ASPRO' display matter in your windows continuously. Frequent changes are available so it does not get out of date. You can also increase your sales by utilising the 'ASPRO' advertising bag and envelope service. You make a definite saving, too. The prices are given below. Then there is the 'ASPRO' bonus which is equivalent to 17 per cent. extra profit if you buy 'ASPRO' on bonus terms. Why not order a bonus parcel through your wholesaler to-day and write us for an 'ASPRO' window show and a supply of bags or envelopes so as to obtain the maximum benefits from the large amount of 'ASPRO' sales that are about?



OUR SIDE, THE ADVERTISING SIDE, IS ALWAYS IN OPERATION, YOUR SIDE, THE DISPLAY SIDE, COMES INTO OPERATION WHEN YOU PUT IN AN 'ASPRO' WINDOW SHOW. THESE TWO FACTORS WORKING TOGETHER BRING INCREASED SALES ACTIVITY.

PRICES FOR 'ASPRO' PAPER BAGS AND ENVELOPES

Kristal Envelopes	-	-	2/6 per 1,000	} Cash with Order
Greaseproof 2oz. Bags	-	-	1/- per 1,000	
Greaseproof 2oz. Bags (long)	-	-	1/6 per 1,000	

Agents:

GOLLIN & CO. PTY., LTD.
(‘Aspro’ Dept.) SLOUGH, Bucks.

Telephone: SLOUGH 608

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by ASPRO LTD., Slough, ENGLAND

No proprietary right is claimed in the method of manufacture or the formula.



THE FINEST OINTMENTS ARE

SPUN

(REG'D)

—OF COURSE!

TOILET CREAMS : COLD CREAMS : VANISHING CREAMS :
ALL OFFICIAL AND OTHER OINTMENTS OF EVERY DESCRIPTION
PACKED OR IN BULK

Telephone : Hop 2422

Telegrams :
"Ushenspuna, London."

ROBERT BLACKIE

SHEN WORKS,
TOWER BRIDGE RD.,
LONDON, S.E.1

CHEMISTS

If you do not stock the **NATIONALLY**
ADVERTISED line

CONSTIPON

we will send you a small supply with all
advertising matter on

SALE OR RETURN

CONSTIPON

GLASGOW, C.2.

GARFIELD TEA

FOR CONSTIPATION

PROMPT SHIPMENT

ALL SIZES

'Phone or Write :

GARFIELD TEA CO.

44 Foxbourn Road

BALHAM, LONDON, S.W.17

AN OLD-FASHIONED—BUT REALLY EFFECTIVE
remedy for **COUGHS, COLDS, IN-**
FLUENZA and **BRONCHIAL** troubles

Licoricine

ACTS LIKE MAGIC

Prices 10½d., 1s. 3d. and 3s.

MANDALL & CO. Ltd., 17/23 Stepney Rd., Newcastle-on-Tyne

TERMS

10½d. size, 8/6 per doz.

1/3 " 12/- "

3/- " 27/- "

Less 5% dis. on £6 orders.

Carriage paid on orders of
£2 and over.

REDUCED PRICE *and* *an* ADDITIONAL SIZE



On and after **APRIL 15, 1933**
the P.A.T.A. price of CAL-BIS-
NATE existing size will be

3/- INSTEAD OF 3/6
(Effective to the Public April 15)

**A NEW SIZE RETAILING
AT 1/6 IS NOW AVAILABLE**

William R. Warner & Co. Ltd., 300 Gray's Inn Road, London, W.C.1

CAL-BIS-NATE

(TRADE MARK)

PURE RUSSIAN LIQUID PARAFFIN MEDICINAL B.P.

ALL GRAVITIES.

HIGHEST VISCOSITY.

PURE RUSSIAN "JASMINE" BRAND WHITE OILS

CHEMICALLY PURE.

WATER WHITE.

ODOURLESS.

FOR MANUFACTURING PURPOSES.

Competitive Prices.

Best Quality.

Immediate Delivery.

THE PURE RUSSIAN LIQUID PARAFFIN CO., LTD.

80 BISHOPSGATE, LONDON, E.C.2

Telephone: LONDON WALL 7132-7133.

Telegrams: "INVATORE, STOCK."

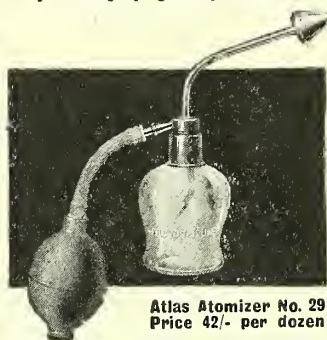
DeVilbiss

ATOMIZERS



DeVilbiss Atomizer No. 15
Price 58/- per dozen

Nose and throat Atomizer for either oils or aqueous solutions. Adjustable tip permits spraying in any direction.



Atlas Atomizer No. 29
Price 42/- per dozen

Gives a continuous spray with oils or aqueous solutions. Does not drip.

The name DeVILBISS stands for all that is best in Atomizers. DeVILBISS means reliability, sound workmanship, long life and correct design gained by more than 42 years' experience in the manufacture of Atomizers to meet every requirement of the medical profession.

With all their advantages DeVILBISS Atomizers are reasonably priced. They are ABSOLUTELY GUARANTEED and will be repaired or replaced free of charge if found unsatisfactory.

Conspicuously displayed, DeVILBISS Atomizers sell themselves and their use stimulates the sale of the solutions used in them.



Atlas Atomizer No. 25
Price 34/- per dozen

Continuous spray Atomizer for either oils or aqueous solutions.



Atlas Atomizer No. 20
Price 30/- per dozen

A compact, durable and dependable nasal Atomizer for either oils or aqueous solutions.

AEROGRAPH COMPANY LTD.

43 HOLBORN VIADUCT, LONDON, E.C.1

Sole distributors of DeVilbiss Products in the United Kingdom.

CVS—50

MEL ROSE — TABLETS

FOR
CHAPPED
HANDS, &c.

Manufactured for close on 50 years



The public demand is maintained in spite of many imitations, and Chemists can rely on sales all the year round.

Look to your Stocks.

2d. and 4½d.

MEL ROSE — CREAM

Sold in Jars for the Dressing Table.
Contains all the remedial properties of
the Tablet made up in a softer form.

9d.

ROBERTS & SHEPPEY SOLE MANUFACTURERS
2 SKIPTON ST., LONDON, S.E.1

English
Filter

POSTLIP
Papers

SQUARES
CIRCLES
FOLDED
ROLLS

WHITE
GREY
PLAIN
ANTIQUE
EMBOSSED
CRINKLED

SAMPLES
FREE

Postlip Filterings are stocked by all the leading Wholesale
Laboratory Dealers.



Evans, Adlard & Co Ltd

Postlip Mills, Winchcombe, Cheltenham.

PETROLEUM JELLIES

WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

WHITE & COLOURED OILS

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

LIQUID PARAFFIN

COLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

Wholesale Trade only.

STERNS LTD.

Royal London House, Finsbury Sq., London, England

Telegrams: "CENTUMVIR, TELEW, LONDON."



Compound Syrup of Hypophosphites

TRADE **"FELLOWS"** MARK

The ideas supported by the medical world today on the therapeutic value of calcium and other mineral salts, were embodied 60 years ago in "FELLOWS".

The only preparation of its kind then, "FELLOWS" still stands alone for its tonic qualities in the treatment of rundown conditions of health and the many forms of anaemia and nervous ailments which so often result.

It stimulates the appetite, aids digestion, and is valuable as a stimulant and tonic to overcome mental and physical exhaustion; and as an aid in combating the invasion of the Tuberculous Processes.

"FELLOWS" has never been successfully imitated.

FELLOWS MEDICAL MANUFACTURING CO., Ltd.

286 St. Paul Street West, Montreal, Canada.

Laboratories:

UNITED STATES

GERMANY

ITALY

SPAIN

MEXICO

ROUMANIA

ARGENTINE

REP. COLOMBIA

AUSTRALIA

NEW ZEALAND

Technical White
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Oils

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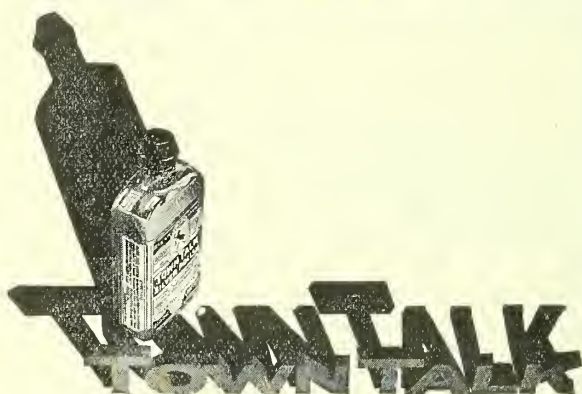
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**MEDICINAL
LIQUID
PARAFFIN B.P.**

Tel.:
ALBERT DOCK
1074 (5 lines)

SILVERTOWN LUBRICANTS LIMITED.

MINOCO WHARF
WEST SILVERTOWN, LONDON, E.16.

Grams.:
**VOLUMETRIC
SILVER**



Jewellers and Silvermiths have used
"Town Talk" Liquid Silver Polish
for over 30 years, to clean and polish
WOOLLEY, their own choice wares, proving by
Sons & Co., Ltd. their example that "Town Talk"
Manchester has no equal for cleaning Gold,
AYRTON, SAUN- Silver and Electro Plate.
DERS & Co., Ltd.
Liverpool Housewives have been educated to this
fact by years of continuous advertising
in the National Daily Newspapers
and Women's Journals.
In consequence, Stockists don't
have to sell "Town Talk"—
they are asked for it.
And "Town Talk" yields
a generous profit, too,
so link up with our
energetic sales
service.

Order from
JAMES
WOOLLEY, their own choice wares, proving by
Sons & Co., Ltd. their example that "Town Talk"
Manchester has no equal for cleaning Gold,
AYRTON, SAUN- Silver and Electro Plate.
DERS & Co., Ltd.
Liverpool
BROOKS
& **WARBURTON, Ltd.**
GOODALL, BACK-
HOUSE & Co., Leeds
MAY, ROBERTS & Co.
Ltd., London
or direct from the sole makers.
Terms and samples from:—

TOWN TALK POLISH CO., MANCHESTER

DRUMMER DYES

are constantly in great
demand by women
who realise the advant-
ages of home-dyeing

It pays you well to
stock and display
DRUMMER DYES

safe
easy



and
sure

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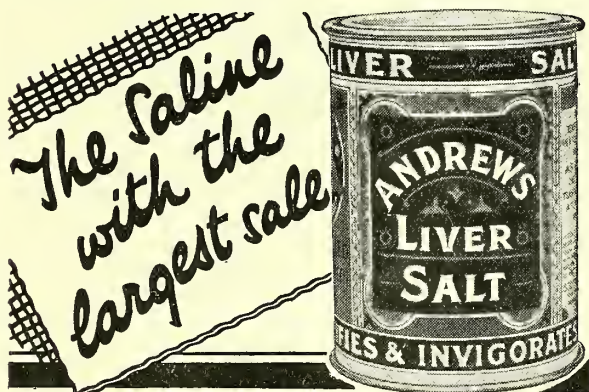
BOLTON

SPIRIT REBATE

RECORD BOOKS
FOR USE IN
RECLAIMING.

LATEST
REGULATIONS

3/-



NOW BRITISH MADE
WAGNER'S DRY BOTTLE CAPS
BEST IN QUALITY & APPEARANCE

Self-Fixing
R.V. WAGNER
33 BROOKE ST., LONDON, E.C.1 Tel. : Holborn 5090

"NOBBY'S EXTRACT please"



You are sure
to be asked for this!
Are you ready with supplies?

THE SPRING ADVERTISING CAMPAIGN
WILL COMMENCE NEXT MONTH.

NOBBY'S EXTRACT OF BARLEY, MALT & HOPS FOR EASY HOME BREWING

12 oz. tin makes 12 pints, price 1/-

32 oz. tin makes 32 pints, price 2/6

LIGHT for brewing Beer. DARK for Stout.

Once a customer buys this line he will buy it again
and again. Write now for the generous trade terms.
No licence needed to sell this line.

NOBBY'S PRODUCTS LTD

County Buildings, 4 Cannon St. Manchester

The "Charlotte" (Regd.)
HOT WATER BOTTLE COVER



A BOON TO
INVALIDS & INFANTS
Stopper Covered
Completely
**No Risk
of Burns**
Supplied in
Assorted Colours

The "Charlotte" (Regd.) **HOT WATER BOTTLE COVER**

	Best Quality. (Velour)	2nd Quality. (Plushette)		Best Quality. (Velour)	2nd Quality (Plushette)
8×6 in.	14/-	12/- doz.	12×8 in.	18/-	16/- doz.
10×6 in.	15/-	13/- "	12×10 in.	21/-	18/9 "
10×8 in.	17/-	15/- "	To fit the moulded hot water bottle, size 11½"×8"		
			Velour 20/- doz.	Plushette 17/- doz.	

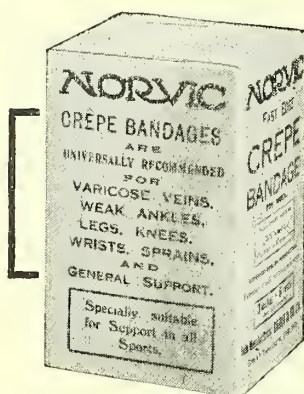
Supplied in pink, blue, peach and grey velour, and pink, blue and grey plushette.

Attractive Showcard, as illustrated, supplied free.

The ONLY SATISFACTORY Hot Water Bottle Cover on the Market

INTRODUCED BY

G. J. HEWLETT & SON, Ltd., 35/42 Charlotte St., London, E.C.2



**INCREASE
YOUR
SALES**

A small window or counter display will bring profitable results. A P.A.T.A. line with full 33½% profit. From the leading wholesalers

Sole manufacturers:
Groat & Co., Ltd
35 Wood St., London, E.C.2

WITH
NORVIC
Regd.
CRÊPE BANDAGES

SANITARY TOWELS

The ORIGINAL and Most Popular
The "K." All wool in knitted cover, very soft.

The "CELTEX." Made of Cellulose for easy disposal.

FROM YOUR WHOLESALE HOUSE, PLEASE

SOUTHALLS

The
"BURMEX" *REGD*
BRAND

is made by a special Heat-Cured Process and is guaranteed not to deteriorate in either Home or Tropical climates for at least 2 years. Carefully tested and Warranted Absolutely Perfect.

Send for free sample to

A. BERMAN & SONS,
76, QUAY STREET,
MANCHESTER, Eng.

PRICE
24/-
Per Gross



NOVIO
TOILET PAPER



PACKET
ROLL

We are continuing our press advertising, and are again featuring the special sample offer which has won so many new customers for this superior toilet paper.

Look to your stocks now — there is good business waiting. Send a card for trade terms and samples to Novio Paper Co., 26 Grove Park, Camberwell, S.E.5

See the *Tarant's* opinion, 27 July 1907

NOVIO
TOILET PAPER



All the year round
you can sell the
Lysolat Enema and Attachment

The only enema with a waste flow pipe ensuring comfort and cleanliness during use.

Retail 5/- price

Trade price 40/- per dozen

Used and recommended by
the Medical Profession

Sell perfumed Lysolats with the Lysolat Enema. The safest, most convenient and economical disinfectant for personal hygiene. Your customers will ask you for perfumed Lysolats.

Why not stock them now and supply an extra demand?

Price per dozen tins small size 13/6
" " " " large size 22/6

Ask our traveller, or write direct to
us, for particulars of Bonus Parcels.

Solidol Chemical Limited, Disney Street, S.E.1

Best sellers
The public is asking
for **ZEAL**

**CLINICAL
THERMOMETERS**

because they are:-

**GUARANTEED TO
STAY ACCURATE**

**CONSISTENTLY
ADVERTISED**

Made by

ZEAL

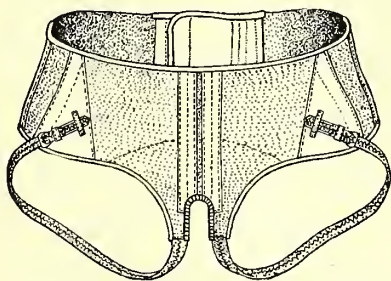
*-the name the
public knows.*

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



HEWARDS

**THE FOREMOST SURGICAL
APPLIANCES SPECIALISTS**



"ANTI-DILATATION BELT," Fig. 44

The R. H. HEWARD Coy.
Crown Road Works Twickenham

Telephone: Popesgrove 2094 Telegrams: Beltruss, Twickenham

British Made

**HOT WATER
BOTTLES**

Hand Moulded

**ALL RUBBER WITH VULCANITE
STOPPERS**

**FROM 20/- Per
Dozen**

*Quantity reductions on application
Send for illustrated list.*

ARTHUR BERTON, Ltd.
"BRITANNIA HOUSE"

256-260 OLD STREET, LONDON, E.C.1

'Phone:

Clerkenwell 1346-7-8-9

MANCHESTER:

36 Chapel Street

'Phone: Blackfriars 4536

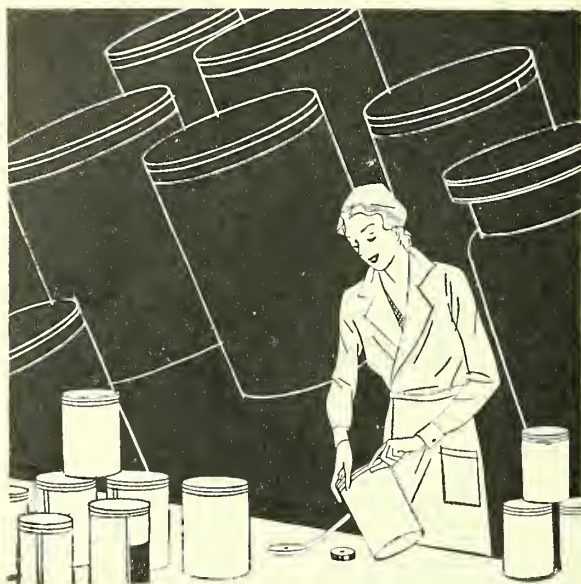
'Grams:

Aybelim, Finsquare, London

GLASGOW:

29-31 Duke St

'Phone: Beil 702



• The Advantages of
"BUTTERFLY BRAND"
SELF-ADHESIVE SEALING TAPE



Applied instantly—without the use of moisture or heat—increasing the air-tight properties of all classes of metal and glass containers—giving security to manufacturers of many products.

SAMUEL JONES & Co., Ltd., Bridewell Place, London, E.C.4
Telephone: City 9407

ANOTHER
of
THE MODERN GADGETS FOR MODERN PEOPLE

FECHER'S 'HOLLOW PEG'
Reg'd No 768529.

Clear Glass Poison Bottle

fitted with

Screw Bakelite Cap and CH. Brush or Glass Rod

$\frac{1}{2}$ -oz. 1-oz.

TWO Sizes only 2/6 3/- per dozen

*Of every Wholesale Sundries House or
direct from the Makers*

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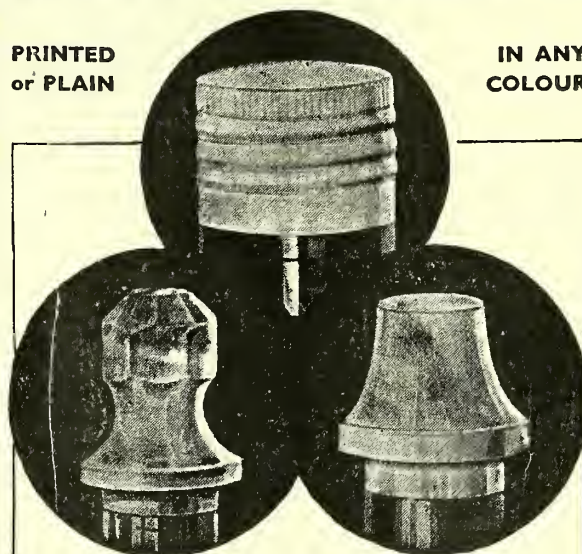
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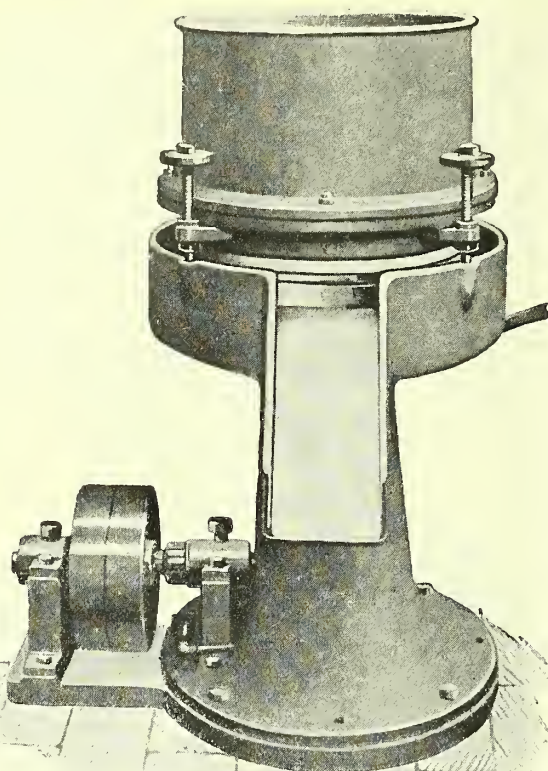
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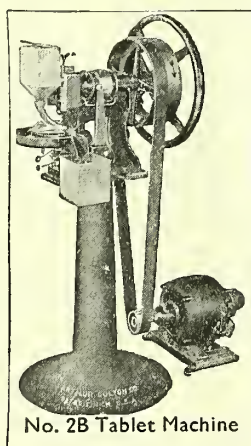
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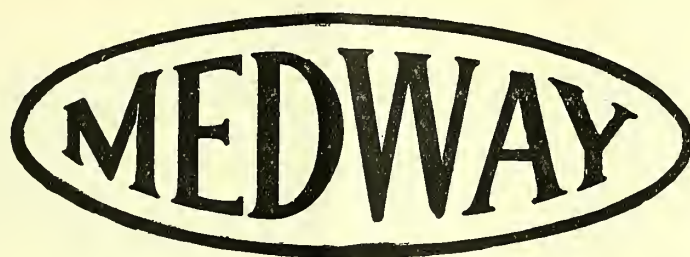
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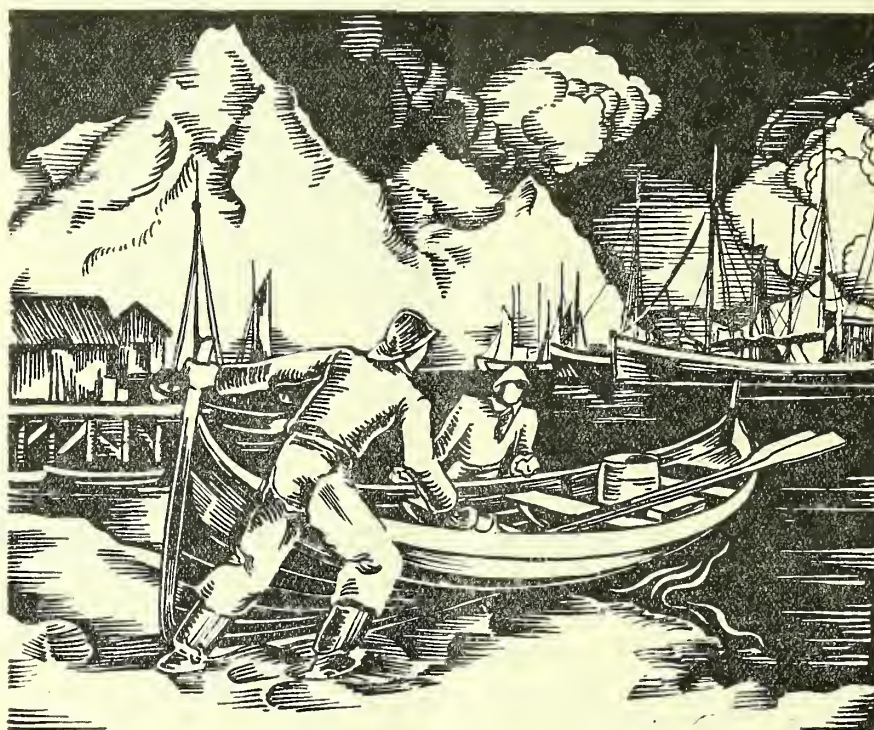
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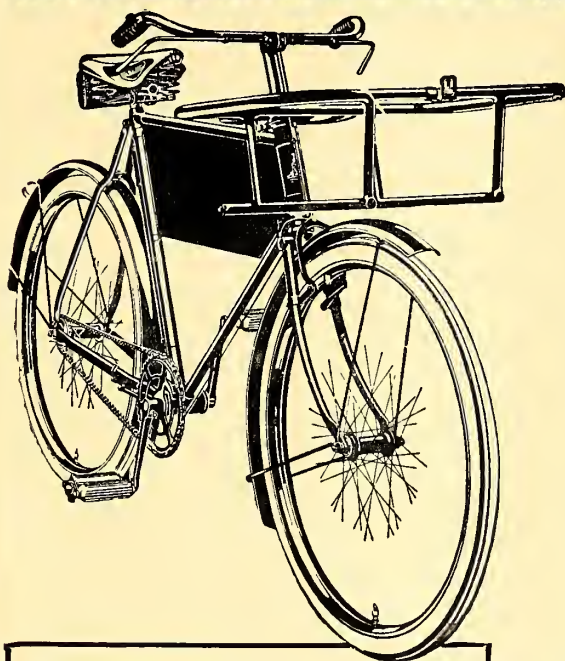
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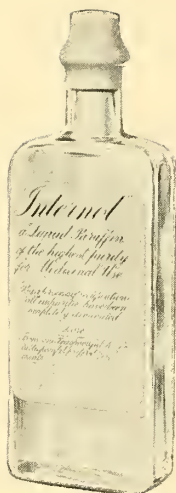
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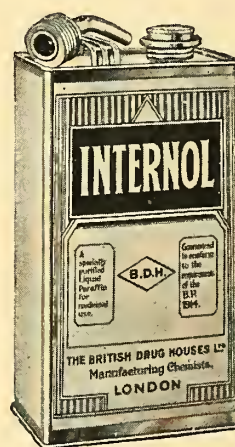
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MARCH 11,
1933

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2.—KENSINGTON.—Old-established High-class Dispensing Business; returns exceed £3,000 per annum; well-fitted old-type pharmacy, with good working stock; net rent about £70 per annum; further details to genuine applicants.

3.—S.W. LONDON (Main Shopping Thoroughfare).—Old-established Retail Business in excellent position; returns under management for 1932, £2,750; have previously exceeded £3,000; heavily stocked pharmacy, held on lease at very low rent for the position; this business undoubtedly calls for a greater turnover than is being done at the moment, and in the hands of a principal we are confident that the present figures would be exceeded; price £2,750 or near offer, or valuation terms would be considered.

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5.—NORTH LONDON.—General Retail and Dispensing Business, with increasing turnover, present rate being about £30 weekly; small living accommodation; moderate rent; long lease; corner shop in main road; stock and fixtures worth about £450; price about £850, or valuation terms entertained.

6.—LONDON.—Progressive Chemist with capital at command is required to supervise and take charge of a group of several businesses situated in London; the minimum amount of capital considered would be £2,000; further details at personal interview, by appointment.

7.—CITY PHARMACY for Disposal; returns average about £2,100 per annum; stock and fixtures worth about £1,100; scope for increase under personal supervision; price £1,100 for quick sale; further details to genuine buyers.

8.—SURREY.—Good Middle-class Retail and Dispensing Business, with Elizabeth Arden Agency; increasing turnover, last year being over £2,000, with gross profit 40 per cent.; double-fronted shop, with nice flat over; 26 years' lease at £160 per annum; price £550 for lease and goodwill, plus stock and fixtures at valuation.

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2.—EASTERN COUNTY.—Sound Light Cash Retail, in populous part of large town; returns last year £1,553; low expenses, easily worked; lock-up shop, neatly fitted and well stocked; price £800.

3.—HANTS.—Cash Drug and Photographic Store; returning under manager £817; excellent profits; fine chance for qualified proprietor; central position, nice town; low rent; price £500.

4.—LONDON.—Old-established City Business, in prominent position; present returns average £43 weekly; good profits; large modern-fronted shop; held on lease at moderate rent; price £1,400.

5.—NORTH LONDON (Few miles out).—Light Family Retail and Dispensing Business; newly established; present returns £22/24 weekly; corner shop, with excellent flat and garden; stock and fixtures worth £450; price £600.

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W.C. DISTRICT.—Excellent Middle-class Cash Chemist Business for sale owing to death of proprietor, established by him over forty years ago; situate near junction of two main thoroughfares, opposite tram and bus stops; average annual turnover £2,800; price £2,500; a rare opportunity for an energetic man. Apply H. Hawkes, Solicitor, 12 Orchard Avenue, Finchley, N.3.

YORKSHIRE.—Country Business in market town; large turnover at good profits; easily worked under pleasant conditions; price £4,200, part may remain. Particulars to genuine buyers only, 384/18, Office of this Paper.

CHEMIST'S Business for immediate disposal in West London suburb; growing neighbourhood; includes Sub-Post Office; long lease; stock approximately £150; excellent fixtures; offers required for lease and goodwill; stock and fixtures at valuation. For further particulars apply Francis Nicholls, White & Co., 73 Cheapside, London, E.C.2.

S. F. CLARK, F.N.A.A. 'Phone: Prospect 3366
CHEMISTS' VALUER & TRANSFER AGENT
34 Marksbury Avenue, Richmond, Surrey
VALUATIONS TRANSFERS STOCKTAKING ACCOUNTANCY
Personally undertaken in all parts of the British Isles, upon lowest terms. Uninterruptedly associated with retail pharmacy since 1896.

CHEMIST'S Business for immediate disposal in South-East London; good position and beneficial lease; stock approximately £240; offers required for lease and goodwill; stock and fixtures at valuation. For further particulars apply Francis Nicholls, White & Co., 73 Cheapside, London, E.C.2.

DRUG AND PHOTOGRAPHIC STORES, WEST LONDON.—Lock-up shop; lease 5 years, with option; very low rental of 18s. 4d. inclusive; takings average £19 weekly; net profit £6 10s.; well-established and good scope for live man; price £350; stock at valuation, about £200. P.C.B. 68/70, Office of this Paper.

DRUG STORES, Surrey; lock-up; one room; long lease; rent £52; taking £12 to £14 weekly, under unqualified management; clear stock about £90; the best offer with or without stock will be accepted for quick sale. Z., 7 Whitehall Road, Thornton Heath, Surrey.

FOR Immediate Sale in Norfolk, the entire Stock, Fittings and Books, all good condition, of a Dispensing Business (still carried on); no patents or fancy goods; best offer accepted; inspection invited; also a Lock-up Shop to Let. Terms as agreed. Apply 386/9, Office of this Paper.

FOR SALE, Business in growing mixed neighbourhood on South Coast; lease £70 p.a., 13 years to run. 385/25, Office of this Paper.

GENUINE Well-established Chemist's Business for sale owing to death of proprietor; situate in one of the best positions off Piccadilly; average turnover under management for the last five years over £3,850; first-class trade; long lease; price £3,500. Apply H. Hawkes, Solicitor, 12 Orchard Avenue, Finchley, N.3.

ON SALE (owner retiring through ill-health), very old-established concern manufacturing and packing Chemicals, Drugs, Galenicals and Proprietaries, or would purchase or amalgamate business with another with active director who would manage both, so advertiser need only give occasional attention; only bona-fide buyers, with references, answered. 385/9, Office of this Paper.

VILLAGE CHEMISTS AND STORES (West Country).—N.H.I. and Agricultural; good living accommodation; main drainage; bath; big scope for energetic man; £275, stock at valuation, nearest. All inquiries strictest confidence. References exchanged. No triflers. 384/21, Office of this Paper.

£300 OR NEAR OFFER (Leeds).—Old-established Chemist, industrial suburb, neglected through ill-health; rent and rates £43; stock valued £220; N.H.I. about 6,000 per annum; small Counter Trade; scope for development; very suitable for young man; kitchen, three rooms upstairs; must be sold, owner ill. Marsden, Valuer, 29 Oakwell Crescent, Leeds. Phone 62890.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

LONDON.—Private Chemist requires good Dispensing Business in London with living accommodation; neglected business considered if scope for improvement; cash payment of £750 and balance by instalments. Particulars, in strict confidence, to 385/2, Office of this Paper.

LONDON OR HOME COUNTIES.—Business required immediately by Chemist with capital upwards of £2,000; medium-class Business preferred; living accommodation optional; vendors contemplating sale or retirement are requested to communicate in strict confidence with Ernest J. George, Sentinel House, Southampton Row, London, W.C.1. Telephone Holborn 9200.

LONDON OR NEAR.—Sound Business required, capable of supporting a Qualified Manager in addition to Unqualified Proprietor; purchase price not to exceed £2,000; negotiations for purchase of a suitable business can be commenced immediately. Reply in strict confidence and for interview to 217/776, Office of this Paper.

BUSINESS Required by Private Chemist, preferably situated in or near to London; living accommodation preferred but not essential; capital available about £750. All replies treated in confidence 217/775, Office of this Paper.

PHARMACEUTICAL CHEMIST requires immediately first-class Dispensing Business showing turnover of £5,000 upwards; cash available; replies will be treated with strict confidence. Chemist, "Westover," Roundhill Road, Leicester.

PHARMACIST with capital up to £2,000 or probably more if necessary, is desirous of negotiating for the purchase of a Business in a Southern Seaside Town, or would prefer, if possible, an arrangement for partnership with a view to succession; good-class Business desired. All replies treated in strict confidence. 217/774, Office of this Paper.

WANTED by Private Chemist, sound Business in Midlands or South, showing returns of not less than £2,500 per annum (preferably more); capital up to £3,000 available for immediate purchase. Please write in strict confidence to 217/773, Office of this Paper.

PREMISES TO LET.

BOGNOR REGIS.—Splendid position, Shop and Flat, self-contained; 4 bed, 2 reception, usual offices; store at rear suitable for garage; rent £175 per annum exclusive. Booker, Elm Grove, Bognor.

LEVENSHULME, Manchester.—23 Stockport Road to be Let on Lease, good main road premises suitable for chemist; excellent prospects for National Health Insurance, being directly opposite doctor's surgery in thickly populated district. Particulars, Bramhall, 39 Stockport Road, Levenshulme, Manchester. Rent £85 per annum. Tel.: Rusholme 2308.

BUSINESS OPPORTUNITIES.

A QUALIFIED Optician desires co-operation with progressive firm of Chemists; to develop Optical Section on share basis, or employee with view to purchase interest. Batty, 111 Fortress Road, N.W.5.

HAVE YOU A LONDON AGENT? We cover London and the Home Counties for general Pharmaceutical Sundries. We have ample warehouse accommodation and a fast delivery service. If your product is good we can push it to the limit. Write us your suggestions. MacGregor & Co., 23 Garway Road, London, W.2.

SALE BY AUCTION.

14-18 NILE STREET, CITY ROAD, LONDON, N.1.

The Well-Assorted Stock of

CHEMISTS' AND HAIRDRESSERS' SUNDRIESMEN.

1,000 DOZEN HIGH-CLASS TOOTH BRUSHES.

80 dozen Pure Badger and Bristle Shaving Brushes, 100 dozen Ebony Back Ladies' and Gents' Hair Brushes, 350 dozen Superior Nail Brushes, Safety Razors and Blades, Scissors, 400 DOZEN DRESSING and POCKET COMBS, Shaving and Toilet Soaps by well-known makers, 200 dozen Sponges, Large Quantity of Bath Cubes, 40 dozen tins and bottles Bath Salts up to 14 lbs.

1,000 DOZEN EAU-DE-COLOGNE, LAVENDER WATER, OTHER PERFUMERY, BRILLIANTINE, HAIR FOODS AND TONICS.

1,000 RUBBER HOT-WATER BOTTLES, 100 dozen Ditto Covers, Rubber Gloves, Helmets and Bathing Caps, Air Cushions, Sponge Bags, Thermos and other Vacuum Flasks, 300 dozen Dyes, large quantity of

SOAPS, FACE CREAMS, POWDERS, COMPACTUMS BY MAUBERT, HOUBIGANT, PIVER, BOURJOIS, ROGER & GALLET, NILDE & VINOLIA.

150 dozen Washing Gloves and Face Cloths, 2,000 Torch Bulbs, large quantity Torch Cases, 200 gross Ointment Tins, 500 gross Corks and a large quantity of Miscellaneous Goods, SURGICAL DRESSINGS, BANDAGES, LINT and COTTON WOOL.

FIXTURES, FITTINGS AND OFFICE FURNITURE.

Three 4 ft. 0 in. MAHOGANY AND PLATE GLASS WALL SHOWCASES, 6 6-ft. OAK AND PLATE GLASS COUNTERS, deal Benches and Counters, Pedestal Desk, Writing Tables, Chairs, Stools, Double Door Safe, 42-in. CHUBB SAFE, 2 UNDERWOOD TYPEWRITERS.

FRANK G. BOWEN, LIMITED,

will Sell by Auction on the premises as above, on **TUESDAY, MARCH 14, 1933, at 12 o'clock.**

On view day prior and morning of sale. Catalogues may be had of the Auctioneers, 62a Aldersgate Street, London, E.C.1.

LEGAL NOTICE.

1933 B. 03.

IN THE HIGH COURT OF JUSTICE,
CHANCERY DIVISION.
MR. JUSTICE LUXMOORE.

IN THE MATTER OF THE BRITISH ORGANO-
THERAPY COMPANY, LIMITED,

—and—

IN THE MATTER OF THE COMPANIES ACT, 1929.

NOTICE IS HEREBY GIVEN that a Petition presented to the High Court of Justice on the 3rd day of January 1933 for confirming the reduction of the capital of the above Company from £22,000 to £1,100 (the Capital of the Company being in excess of its requirements) is directed to be heard before Mr. Justice Luxmoore on the 21st day of March 1933.

ZABELL & CO.,
11 Queen Victoria Street,
London, E.C.4.

Solicitors for the said Company.

Dated the 3rd day of March 1933.

AGENCIES.

IRISH FREE STATE.—Well-established Firm of Importers, with extensive offices, showrooms and storage accommodation, staff of travellers regularly covering all districts, wish to act as Distributors and Packers for firms of repute; proprietary lines, commission or buying basis. Address Box 9, c/o Parker's Advertising Agency, 43 Dawson Street, Dublin.

AGENTS Wanted for definite areas; must have established connection with Chemists and Druggists, for Chemists' Confectionery of outstanding quality and an increasing demand; a splendid opportunity for conscientious workers to earn good money; must have a car or van; Lancashire, Yorkshire and Durham areas not vacant. 385/37, Office of this Paper.

PARTNERSHIPS.

EXPERIENCED Chemist seeks partner, lady or gentleman, to purchase a Retail Chemist Business and develop a Patent Medicine; limited company; available about £800 to £1,000 from each partner. Reply W. B. B., Vancouver Hotel, Princes Square, W.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BRISTOL.—Assistant, Qualified or Unqualified, age between 25 and 40 years; must be of good appearance, good Window-dresser, Salesman and Dispenser and capable of taking charge. Apply, stating salary required, to F. H. Moss, M.P.S., Shirehampton Road, Stoke Bishop, Bristol.

CORNWALL.—Male (qualified) Assistant wanted from May 1 to September 30, 1933; knowledge of Photography essential. State age, experience, salary (outdoors), and enclose photograph. R. Isbell, 18 Fore Street, Fowey, Cornwall.

EAST LONDON SUBURB.—Required at once, Qualified Assistant as Superintendent of small limited company; lady or gentleman; state full particulars as to age, experience and salary expected, which would be low to commence; permanent situation with good prospects. 385/12, Office of this Paper.

LONDON.—Competent Unqualified Assistant (male) required; applicants will kindly state age, height and experience and if married or single. Apply "S," 217/777, Office of this Paper.

LONDON.—Wanted, a capable and responsible Manager, also Assistant, lady or gent., with knowledge of D. and P. Apply, with full particulars of experience, stating age, height, salary required and when at liberty, to 385/16, Office of this Paper.

LONDON.—Wanted, Qualified Assistant for small shop; wages must be moderate. Write, giving full particulars, 383/10, Office of this Paper.

LONDON, N.—Qualified Male Assistant, with good Dispensing and Counter experience. Application in writing, stating age, height, experience, salary required and enclosing photograph to Bishops Pure Drug Co., Ltd., 460 Holloway Road, London, N.7.

LONDON, N.I.—Qualified Manager required for small working-class Retail N.H.I. Dispensing Business; salary £3 per week. Apply, stating age, experience, references and salary required, to 385/11, Office of this Paper.

LONDON, S.E.—Improver required, male or female, used to Packing and Counter work. Apply, stating age, experience, references and salary required, to 385/110, Office of this Paper.

LONDON, S.W.—Young Qualified Manager for light branch; good Photographic Salesman. Please state full particulars of experience and salary required to P.C.B. 68/5, Office of this Paper.

LONDON, S.W.—Keen, energetic and Qualified Assistant; good middle-class Business; must be a real smart Salesman and good Prescriber; an excellent opportunity for the right man. Apply 217/779, Office of this Paper.

MANCHESTER.—Qualified Assistant Manager, with Optical qualification (J.C.Q.O.), wanted immediately. Applicants must be of good appearance, gentlemanly and fully experienced in modern business methods. Apply, stating experience and salary required. Interview essential. Replies not answered in four days declined with thanks. A. G. F. Leech, 577 Wilbraham Road, Chorlton-cum-Hardy.

ASSISTANT, qualified, at once; either sex; low salary to commence; opening new shop Saturday, March 11; must be good Window Dresser, Dispenser and knowledge of Photographic Salesmanship. Apply Douglas, 73 Upper Street, Islington N.1. (near "The Angel").

COMPETENT Assistant (under 40) in a Family, Retail and Dispensing Business; experienced in Dispensing, Counter and Window Dressing, with a knowledge of Photography; good Stock-keeper; state references, salary and experience in first letter. Alban Atkin, M.P.S., 243 West End Lane, Hampstead.

JUNIOR ASSISTANT, Unqualified (male), for middle-class Retail; please state full particulars, age, height, experience and salary required; send photo if possible. Rose, Chemist, Bullingdon Road, Oxford.

JUNIOR Lady Assistant wanted for Dispensing and Counter. Please state experience, age, &c., to Herbert A. Mills, 127 Gipsy Hill, Norwood, S.E.19.

LADY Assistant, qualified, with good Dispensing and Counter experience, wanted for small country town, eight miles Manchester. Apply, stating age, height, experience and salary required. Copies only testimonials. Applications unanswered in seven days respectfully declined. 383/31, Office of this Paper.

LOCUM, qualified, wanted end of March, for small Lancashire business; suit middle-aged or retired chemist. Terms and references to 217/770, Office of this Paper.

MANAGER (30-40) for good-class old-established Dispensing, Retail and Photographic business; must be of good appearance, keen and energetic; unusual opportunity for suitable man; salary and commission. Write, giving fullest particulars, to 386/15, Office of this Paper.

PART-TIME male Assistant required for evening work near Finsbury Park; one at college would suit; full time could be arranged for summer holidays; particulars of experience necessary. 384/17, Office of this Paper.

PHARMACY.—Required, Qualified Manager to act as locum, with view to permanency; must be thoroughly capable and experienced in every branch. Apply in writing, stating age, experience and salary required to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee of Officials will disqualify.

QUALIFIED Chemist and Optician required for good-class Pharmacy; preference given to married man capable of taking complete charge if desired; London district. Apply stating fullest particulars and salary required to 217/778, Office of this Paper.

QUALIFIED Chemist required to Manage Drug Department; must be thoroughly experienced and conversant with local and general requirements of the Business; annual trade, including transfers, £14,000 per annum. Applications, stating age, experience, salary required, and references, to Beswick Co-operative Society, Ltd., Rowsley Street, Beswick, Manchester, not later than March 18, 1933.

QUALIFIED Lady Assistant for Retail Shop; must be capable Dispenser, used to N.H.I., brisk Counter Trade and Window Dressing; Photographic experience an advantage. Apply personally to Howards Drug Stores, Ltd., 182-184 Old Kent Road, London, S.E.1.

QUALIFIED man wanted for morning relief, 10-1 or near, not Saturdays; position would suit man requiring light duties; S.W. district; state salary. 386/17, Office of this Paper.

QUALIFIED Manager for small branch; young, single and energetic; must be keen and have first-class references. Apply 53 East Hill, Wandsworth.

QUALIFIED, married; live over premises; quick and accurate Dispenser, good Counter hand and Window-dresser; age 25-30; must be capable of taking charge; permanency to right man. C. J. Roe, Chemist, Epsom.

REQUIRED, Qualified Manager, accustomed to working-class business Yorks (W.R.). Apply "Aspirin," 217/780, Office of this Paper.

SMART Young Lady (20-26), unqualified, required for small City branch; light trade and hours; one having served apprenticeship preferred. Apply The Prosser Roberts Co., 13 Church Street, Camberwell.

WANTED.—Doctor's Dispenser, man of middle age preferred; usual surgery hours; easy berth; apply stating salary required and references to Strachan, 108 Bromham Road, Bedford.

WANTED.—Experienced Unqualified Assistant (35-45), for Dispensing; married; to live over shop; flat, 3 rooms and bathroom provided. Apply by letter, "Chemist," 31 Green Lane, Northwood, Middlesex.

WANTED first week April, thoroughly reliable Qualified Assistant for good-class business; small country town, East Anglia; good knowledge of business, pleasing manner, quick and attentive to customers, undeniable references; short hours. Apply, giving full particulars as to experience, age and salary required. Letters not replied to in eight days respectfully declined. 383/8, Office of this Paper.

WOMAN Dispenser (part-time) at the Maudsley Hospital (L.C.C.), Denmark Hill, S.E.5. Candidates must possess Pharmaceutical Society's qualification. Salary £130 a year (3½ hours on six mornings a week). Non-pensionable. Marriage terminates contract of service. Remuneration and conditions subject to review. For application form, returnable by March 22, send stamped addressed foolscap envelope to Chief Officer (P), Mental Hospitals Department, County Hall, Westminster Bridge, S.E.1. Canvassing disqualifies.

WANTED, young Qualified Assistant; single (male); general experience and capable of taking charge; please state full particulars, salary, &c., in first letter; letters not answered in 4 days respectfully declined. 385/19, Office of this Paper.

YOUNG capable Manager (Qualified) required for branch in Wiltshire town. Apply, stating age, experience, references and salary required, to 385/18, Office of this Paper.

YOUNG Qualified Assistant wanted near Reading; please state age, previous experience, salary required, if or when free. 383/25, Office of this Paper.

WHOLESALE.

LANCS AND YORKS.—Experienced Representative wanted for parts of these counties; must have sound connection and ready to maintain own light van for travelling and delivery of Chemists' Confectionery; salary and commission; good average income assured. 386/6, Office of this Paper.

ADVERTISING.—Writer wanted by Wholesale Chemists for Trade and Medical printed matter; previous experience necessary; age about 25 to 30; qualified or unqualified; state salary required and experience to 217/769, Office of this Paper.

ASSISTANT Sales Manager required by Manufacturing Chemists to develop Packed Goods Sales; must have had previous similar experience in leading pharmaceutical house and have thorough understanding of principles of marketing and distribution; able to control travellers. Write 217/767, Office of this Paper.

CHEMIST (Pharmaceutical) wanted; smart man with creative designing ability for old-established Perfumery and Toilet Goods Factory; able to supervise staff. State full experience and salary required to 217/765, Office of this Paper.

REPRESENTATIVE required by leading Drug House for Warwickshire and Worcestershire; to call on Chemists, Hospitals, Doctors and possibly M.W. Manufacturers. Applications will be entertained only from those with established connection in respect of Drugs and Packed Pharmaceuticals. 217/766, Office of this Paper.

REPRESENTATIVE required to carry as side line Advertised Proprietary Product; connection Chemists, Hairdressers and Stores; good references essential. Write 217/772, Office of this Paper.

REPRESENTATIVE wanted to call on Photographic Dealers, Lancashire and Yorkshire district. Send full details, experience, photo if possible, 217/768, Office of this Paper.

REPRESENTATIVES required on liberal commission basis by well-known house to take over existing accounts and to call on Chemists in the Eastern and part of the Northern Postal Districts of London, also in the Postal Districts South of the Thames, with an excellent new line, together with well-known established lines. Write, stating experience and lines now carried, to Box 8,696, c/o F. Wilson, 101 Hatton Garden, E.C.1.

REPRESENTATIVES required upon a commission basis only to sell well-known Non-intoxicating Wines. Apply 217/771, Office of this Paper.

REPRESENTATIVES with Established Connections amongst Chemists (excluding London) offered Proprietary Article as Sideline; reserved territories; liberal commission; compact samples; write stating lines carried and ground covered. P.C.B. 67/31, Office of this Paper.

TRAVELLER required, on commission basis, for nationally advertised Toilet Goods, for Northern Ireland and Irish Free State; must be live man with established connection on territory amongst Chemists, Stores and Hairdressers; no objection to one other non-competitive line. 217/764, Office of this Paper.

TRAVELLER required, on commission basis, for nationally advertised Toilet Goods, for Midlands and South Wales; must be live man with established connection on territory amongst Chemists, Stores and Hairdressers; no objection to one other non-competitive line. 217/763, Office of this Paper.

TRAVELLERS Wanted, calling on Chemists, Hairdressers and Stores, to carry sideline of High-class Toilet Preparations on commission basis; territories allotted. Sigal, 6 Swan Street, E.1.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—ASSISTANT (23), disengaged end of month, requires situation; permanency; London or suburbs preferred; trustworthy; proprietor's interests studied; West-End and Suburban experience; good Counter man and capable Window-dresser; Photographic; general knowledge of Dispensing; Scholl's Orthopaedic diploma. 379/24, Office of this Paper.

A.A.A.A.—LOCUM (24), qualified, trustworthy, well recommended; dates on request. Cleverly, 146 Goddard Avenue, Swindon.

A.A.A.A.—QUALIFIED; male (25); experience in all classes; unimpeachable references; tall; extensive Photo, General, Toilet, Dispensing, Counter experience; free when required. Pharmacist, 8 Oldfield Road, Bristol, 8.

A.A.A.A.—QUALIFIED Manager (28), married, seeks permanency; 14 years' experience, including West End; 3½ years managing; keen worker; up-to-date ideas; sound business methods; free one week. Keen, 76 Cardiff Road, North End, Portsmouth.

A.A.A.—QUALIFIED Scot (29), tall, of smart appearance and pleasing personality, desires position with good firm where hard work and progressive business methods will be appreciated; excellent varied experience, including three years' management. Full particulars and photo on communicating with 384/28, Office of this Paper.

A.A.—EFFICIENT Assistant (24); good appearance, keen Salesman, Window Dresser, Photographics, Competent Dispenser; disengaged; excellent references. 382/27, Office of this Paper.

A.—QUALIFIED Lady, disengaged, seeks post; excellent references and experience, hospital; Retail, City and suburban. Reply: Reference 623, 77 Oxford Street, Manchester, 1.

A CAPABLE Qualified Scot (25), tall; 7 years' experience in all branches, including managerial (London and country); accurate Dispenser, Photography; excellent references; as Branch Manager or Assistant. 386/3, Office of this Paper.

A CAPABLE Young Lady Assistant requires post; keen Saleswoman, good Window Dresser and Stockkeeper; temporary or permanent. Flack, 46 Fontarabia Road, Clapham Common, S.W.11.

A PHARMACEUTICAL Chemist (25) seeks position; 9 years' good experience in all branches; free after 1 week. 35 Dulverton Road, Leicester.

A QUALIFIED Chemist (28); married, energetic; efficient Counter man, used to taking charge; good book-keeper; excellent references. 384/3, Office of this Paper.

A QUALIFIED experienced Manager, disengaged; permanency or locum, London or Suburbs; moderate salary. Davies, 109 Alexandra Drive, Surbiton, Surrey.

A S Qualified Manager or Assistant (35); public school education; of undoubted ability in every sphere of pharmacy; used to good-class business. "R.", 6 Elmcres End Road, S.E.20.

A DVERTISER, with wide experience of pharmacy, who has been out of the chemist's business for several years, having taken up Optics (F.B.O.A., F.S.M.C., J.C.Q.O.), offers his services to a chemist at a nominal salary to get an up-to-date knowledge of the present-day requirements; excellent references. West P. Lear, 15 Hawthorn Road, Bexleyheath, Kent.

ARE YOU REQUIRING the whole-hearted services of a young, married, Qualified Pharmacist? One offering a thorough all-round experience of the business—Dispensing, Window-dressing, Counter, Photography, &c. If so, write to 386/16, Office of this Paper.

A SSISTANT; competent, tall, abstainer, disengaged; all-round London experience and references. Sinclair, 97 York Street, Marylebone, W.1.

A SSISTANT.—First-class Counterman, Window-dresser; 8½ years' experience; excellent references; seeks position London, preferably S.W. Mayne, 60 South Side, S.W.4.

A SSISTANT, Lady (26), desires permanency; tall, smart appearance; hard worker; 12 years' Stock-keeping, Dispensing, Window-dressing, Counter, Photographic experience; excellent references. Page, 59 Openview, Earlsfield, S.W.18.

A SSISTANT, Unqualified, thoroughly reliable all branches; conscientious and trustworthy. Davies, c/o Bailey, Chemist, 809 Harrow Road, N.W.10.

A SSISTANT, Unqualified (38), conscientious and willing worker; last position 12 years. Capell, 32 Lorne Street, Reading.

A SSISTANT, Unqualified, referred Part I; experienced Dispenser and Counterman (2½ years London); both private and multiple firm work; will accept reasonable offer; any locality. "Weir," 179 Mt. Pleasant, Redditch, Worcs.

A SSISTANT (22); Unqualified, keen, energetic and thoroughly capable in all branches; 6 years' first-class experience; excellent references. 383/36, Office of this Paper.

B IRMINGHAM.—Young Lady (17); tall; refined; 3 years' Retail Pharmacy experience. King, 4 Maple Grove, Leonard Road, Handsworth.

B RANCH Manager, Qualified; sound experience; successful record; 3 years present; unavoidably disengaged shortly. "A. E. J.," 40 Greenwrythe Lane, Carshalton, Surrey.

D ISPENSER requires situation, Wholesale or Retail, anywhere. R. Winter, 16 Albert Square, S.W.8.

D RUG Store Manager (bachelor, 30) desires appointment; tactful, experienced Prescriber, Salesman; disengaged; moderate salary; London or suburbs only. "Statim," 383/4, Office of this Paper.

E XPERIENCED Unqualified Assistant (26), requires sound part-time position in good-class Pharmacy; Dispensing preferred but not essential. 383/37, Office of this Paper.

F OUR More Locums Wanted by fully-experienced Manager; 20 years' excellent references; all duties; Photography; wines; Unqualified; thoroughly reliable. G. E. Clark, 64 Walmsley Street, Hull.

J UNIOR (20; 5 ft. 10 in.); good appearance and address; good experience in good-class Dispensing business. 62 Richmond Wood Road, Bournemouth.

L ADY Chemist requires position, afternoons and evenings only; Manchester district. 383/39, Office of this Paper.

L ADY Dispenser-Bookkeeper, Hall Certificate, seeks post with Doctor, Hospital or Chemist; experienced Surgery, N.H.I. and Counter. Hamer, 22 Major Street, Ramsbottom, near Manchester.

L ADY (Hall) requires post; excellent Counter and Dispensing experience; North preferred, not essential. 384/2, Office of this Paper.

L OCUM, Whole or Part Time; Unqualified (40); tall; thoroughly experienced; reliable, active, abstainer; now free. Alexander, 189 Southampton Street, S.E.5.

M.P.S., F.B.O.A., F.I.O., J.C.Q.O. (47), married, abstainer, extensive experience home and abroad, desires situation as Manager. Apply 384/10, Office of this Paper.

M.P.S. (25; 5 ft. 9 in.), "Square" trained, eight years all-round experience, desires situation in or near London; would accept lower salary if opportunity of gaining practical experience in Optics. 102 Woodstock Road, Bedford Park, W.4.

M ANAGER, Drug Stores, or unqualified Assistant; 17 years one post; excellent references. R. Slee, 106 Fifth Avenue, W.10.

M ANAGER, Qualified (30), requires change; permanency desired; Southern Counties; marriage contemplated; 15 years' good all-round experience; good references; would live on premises; present position 4 years. 386/14, Office of this Paper.

M ANAGER, Qualified, keen and efficient, 11 years' experience City, West End and Suburbs, requires situation; splendid references; free at once. S. S. P., 352 Coldharbour Lane, Brixton, S.W.9.

O PTICS.—Chemist-Optician (25), F.S.M.C., desires early opportunity as Manager to develop or take charge of Optical Department for Chemist; permanency; 7 years' experience London and Provinces; highest references. Chemist-Optician, 105 Old Ford Road, London, E.2.

Q UALIFIED Chemist; excellent references, middle-aged, energetic, accurate Dispenser; easy hours or part time; 30 years' experience; small salary; disengaged; London. Alex Wilson, 14 Percy Circus, W.C.1.

Q UALIFIED Chemist (23) requires post as Dispenser to Hospital, Institution or Doctors; wage £2 10s.; disengaged; excellent references. Denny, 2 Elmgrove Road, Gorleston, Norfolk.

Q UALIFIED; at present employed in business featuring rubber specialities; will accept moderate payment for position in other type business; experienced Manager and Dispenser. Harris, 6 Guthrie Street, London, S.W.3.

Q UALIFIED Lady (30), 14 years' experience, desires temporary situation near N.W. London. 385/6, Office of this Paper.

QUALIFIED (Male), "Square" trained, seeks position; moderate salary to acquire experience; used to clerical work. 380/10, Office of this Paper.

QUALIFIED Manager or Locum (middle-aged); total abstainer; moderate salary; free on March 24, or earlier if required. 385/31, Office of this Paper.

QUALIFIED; ten years' experience West End and Suburbs; Photography, Window-Dressing, &c. Levy, 51 Mortimer Street, W.1.

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